

**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 1 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl.                              | Product / Material of Test                 | Specific Test Performed                                                                | Test Method Specification against which tests are performed                                            | Range of Testing / Limits of Detection               |
|----------------------------------|--------------------------------------------|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| <b><u>BIOLOGICAL TESTING</u></b> |                                            |                                                                                        |                                                                                                        |                                                      |
| <b>I.</b>                        | <b>FOOD AND AGRICULTURAL PRODUCTS</b>      |                                                                                        |                                                                                                        |                                                      |
| <b>1.</b>                        | <b>Bakery &amp; Confectionery Products</b> | Salmonella                                                                             | LI-00.713-5,(July 2012)<br>(ISO 6579)<br>IS 5887 (Part 3) :1999<br>(RA 2013)<br>LI-00.765-3,(Nov 2016) | Qualitative (Present / Absent in X g)                |
|                                  |                                            | Salmonella                                                                             | LI-00.746-2 (June 2017)<br>(ELISA)<br>LI-00.765-3<br>(Nov 2016)                                        | Qualitative (Present / Absent in X g)                |
|                                  |                                            | Coliform<br>- Qualitative Detection                                                    | ISO 4831:2006<br>IS 5401 Part 2:2012<br>LI-00.765-3,(Nov 2016)                                         | Qualitative (Present / Absent in X g)                |
|                                  |                                            | Aerobic Mesophilic microorganisms                                                      | ISO 4833-1:2013<br>IS 5402 :2012<br>LI-00.765-3,(Nov 2016)                                             | ≥10 cfu /g                                           |
|                                  |                                            | - Yeasts & Moulds<br>- Yeasts<br>- Moulds                                              | ISO 21527-2:2008<br>LI-00.765-3, (Nov 2016)                                                            | ≥10 cfu /g                                           |
|                                  |                                            | Staphylococcus aureus<br>Coagulase positive<br>Staphylococci<br>-Qualitative Detection | ISO 6888 – 3 :2003<br>LI-00.765-3,(Nov 2016)                                                           | Qualitative (Present / Absent in X g)                |
|                                  |                                            | Enterobacteriaceae<br>(Detection & Enumeration)                                        | ISO 21528-1:2017<br>LI-00.765-3 (Nov 2016)                                                             | Qualitative (Present / Absent in X g)<br>≥0.3 MPN /g |
|                                  |                                            | Enterobacteriaceae,<br>Enumeration<br>(Quantitative)                                   | ISO 21528-2:2017<br>LI-00.765-3 (Nov 2016)                                                             | ≥10 cfu /g                                           |

**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
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**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 2 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test       | Specific Test Performed                                                  | Test Method Specification against which tests are performed                                       | Range of Testing / Limits of Detection                 |
|-----|----------------------------------|--------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|--------------------------------------------------------|
|     |                                  | Listeria monocytogenes Detection (Qualitative)                           | ISO 11290-1:2017<br>IS 14988 (Part 1) :2001 (RA 2012)<br>LI-00.765-3 (Nov 2016)                   | Qualitative (Present / Absent in X g)                  |
|     |                                  | Escherichia coli, Escherichia coli presumptive (Detection & Enumeration) | ISO 7251: 2005<br>LI-00.765-3 (Nov 2016)                                                          | Qualitative (Present / Absent in X g)                  |
|     |                                  | Escherichia coli (Detection & Enumeration)                               | IS:5887 (Part 1)-1976 (RA 2013)                                                                   | Qualitative (Present / Absent in X g) $\geq 0.3$ MPN/g |
|     |                                  | Shigella spp.                                                            | IS -5887-Part -7: 1999 (RA 2013)                                                                  | Qualitative (Present / Absent in X g)                  |
|     |                                  | Vibrio cholera                                                           | IS -5887-Part -5: 1974 (RA 2013)                                                                  | Qualitative (Present / Absent in X g)                  |
|     |                                  | Listeria monocytogenes (and Listeria spp) - Qualitative Detection        | LI-00.755-1 (Aug 2013)<br>LI-00.765-3 (Nov 2016)                                                  | Qualitative (Present / Absent in X g)                  |
| 2.  | <b>Beverages (Non-Alcoholic)</b> | Salmonella                                                               | LI-00.713-5 (July 2012) (ISO 6579)<br>IS 5887 (Part 3 ) :1999 (RA 2013)<br>LI-00.765-3 (Nov 2016) | Qualitative (Present / Absent in X g / ml)             |
|     |                                  | Salmonella                                                               | LI-00.746-2 (June 2017) (ELISA)<br>LI-00.765-3 (Nov 2016)                                         | Qualitative (Present / Absent in X g / ml)             |
|     |                                  | Coliform - Qualitative Detection                                         | ISO 4831:2006 / IS 5401 Part 2:2012<br>LI-00.765-3 (Nov 2016)                                     | Qualitative (Present / Absent in X g/ ml)              |

**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 3 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed                                                                                                   | Test Method Specification against which tests are performed                                                             | Range of Testing / Limits of Detection                         |
|-----|----------------------------|---------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
|     |                            | Aerobic Mesophilic microorganisms                                                                                         | ISO 4833-1:2013<br>IS 5402 :2012<br>LI-00.765-3<br>(Nov 2016)                                                           | ≥1 cfu ml<br>≥10 cfu /g                                        |
|     |                            | - Yeasts & Moulds<br>- Yeasts<br>- Moulds                                                                                 | ISO 21527-2:2008<br>LI-00.765-3<br>(Nov 2016)                                                                           | ≥1 cfu/ ml<br>≥10 cfu /g                                       |
|     |                            | Staphylococcus aureus<br>Coagulase positive<br>Staphylococci<br>- Enumeration<br>(Quantitative)<br>-Qualitative Detection | ISO 6888 – 1 :1999 / IS<br>5887 (Part 8/Sec 1):2002<br>(RA 2012)<br><br>ISO 6888 – 3 :2003<br>LI-00.765-3<br>(Nov 2016) | ≥1 cfu/ ml<br>≥10 cfu /g<br><br>Present /Absent in X g / ml    |
|     |                            | Enterobacteriaceae<br>(Detection & Enumeration)                                                                           | ISO 21528-1:2017<br>LI-00.765-3 (Nov 2016)                                                                              | Present / Absent in X g / ml<br>0.3 MPN/g/ml to 11000 MPN/g/ml |
|     |                            | Enterobacteriaceae, Enumeration<br>(Quantitative)                                                                         | ISO 21528-2:2017<br>LI-00.765-3 (Nov 2016)                                                                              | ≥1 cfu ml<br>≥10 cfu /g                                        |
|     |                            | Listeria monocytogenes<br>Detection (Qualitative)                                                                         | ISO 11290-1:2017<br>IS 14988 (Part 1) :2001<br>(RA 2012)<br>LI-00.765-3 (Nov 2016)                                      | Present /Absent in X g / ml                                    |
|     |                            | Escherichia coli,<br>Escherichia coli presumptive<br>(Detection & Enumeration)                                            | ISO 7251: 2005<br>LI-00.765-3<br>(Nov 2016)                                                                             | Present / Absent in X g / ml                                   |
|     |                            | Escherichia coli<br>Detection & Enumeration                                                                               | IS:5887 (Part 1)-1976<br>(RA 2013)                                                                                      | Present / Absent in X g / ml<br>0.3 MPN/g/ml to 11000 MPN/g/ml |

**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 4 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test         | Specific Test Performed                                                            | Test Method Specification against which tests are performed                                          | Range of Testing / Limits of Detection |
|-----|------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|----------------------------------------|
|     |                                    | B. cereus presumptive<br>B.cereus spores presumptive<br>Enumeration (Quantitative) | ISO 7932 : 2004<br>IS 5887 (Part 6) : 2012<br>LI-00.765-3 (Nov 2016)                                 | ≥1 cfu ml<br>≥10 cfu /g                |
|     |                                    | Shigella spp.                                                                      | IS -5887-Part-7(RA 2013)                                                                             | Present / Absent in X g / ml           |
|     |                                    | Vibrio cholera                                                                     | IS -5887-Part-5(RA 2013)                                                                             | Present / Absent in X g/ml             |
|     |                                    | Listeria monocytogenes (and Listeria spp)<br>- Qualitative Detection               | LI-00.755-1 (Aug 2013)<br>LI-00.765-3 (Nov 2016)                                                     | Present / Absent in X g/ ml            |
| 3.  | Cereal, pulses and Cereal products | Salmonella                                                                         | LI-00.713-5 (July 2012)<br>(ISO 6579)<br>IS 5887 (Part 3 ) :1999 (RA 2013)<br>LI-00.765-3 (Nov 2016) | Qualitative (Present / Absent in X g)  |
|     |                                    | Salmonella                                                                         | LI-00.746-2 (June 2017)<br>(ELISA)<br>LI-00.765-3 (Nov 2016)                                         | Qualitative (Present / Absent in X g)  |
|     |                                    | Coliform<br>- Qualitative Detection                                                | ISO 4831:2006 /<br>IS 5401 Part 2:2012<br>LI-00.765-3 (Nov 2016)                                     | Present / Absent in X g                |
|     |                                    | Coliform Enumeration (Quantitative)                                                | ISO 4832:2006 /<br>IS 5401 Part 1:2012 (RA 2012)<br>LI-00.765-3 (Nov 2016)                           | ≥10 cfu/g                              |
|     |                                    | Aerobic Mesophilic microorganisms                                                  | ISO 4833-1:2013<br>IS 5402 :2012<br>LI-00.765-3 (Nov 2016)                                           | ≥10 cfu /g                             |

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**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 5 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

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|-----|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
|     |                            | - Yeasts & Moulds<br>- Yeasts<br>- Moulds                                                                                                                                    | ISO 21527-2:2008<br>LI-00.765-3<br>(Nov 2016)                                                                         | ≥10 cfu/g<br>Present / Absent in X g                                           |
|     |                            | Staphylococcus aureus<br>Coagulase positive<br>Staphylococci<br>- Enumeration<br>(Quantitative)<br>-Qualitative Detection                                                    | ISO 6888 – 1 :1999 IS<br>5887 (Part 8/Sec 1):2002<br>(RA 2012)<br><br>ISO 6888 – 3 :2003<br>LI-00.765-3<br>(Nov 2016) | ≥10 cfu /g<br><br>Present /Absent in X g                                       |
|     |                            | Enterobacteriaceae<br>(Detection &<br>Enumeration)<br><br>Enterobacteriaceae,<br>Enumeration<br>(Quantitative)                                                               | ISO 21528-1:2017<br>LI-00.765-3 (Nov 2016)<br><br>ISO 21528-2:2017<br>LI-00.765-3 (Nov 2016)                          | Present / Absent in X g<br>0.3 MPN/g/ml to 11000<br>MPN/g/ml<br><br>≥10 cfu /g |
|     |                            | Listeria<br>monocytogenes<br>Detection (Qualitative)                                                                                                                         | ISO 11290-1:2017<br>IS 14988 (Part 1) :2001<br>(RA 2012)<br>LI-00.765-3 (Nov 2016)                                    | Present /Absent in<br>X g                                                      |
|     |                            | <b>Bacterial spores</b><br>- Aerobic spores 10<br>min 80°C/ 72 h 30°C<br><br>- Aerobic spores 10<br>min 80°C/ 48 h 55°C<br><br>- Flat sour spores 30<br>min 100°C/ 48 h 55°C | LI-00.718-2 (Dec 2013)<br>LI-00.765-3 (Nov 2016)<br><br>SOP MCLMBO-WI-140<br>(Oct 2017)                               | ≥10 cfu /g<br><br>≥10 cfu /g<br><br>≥10 cfu /g<br>Present / Absent in X g      |
|     |                            | Escherichia coli,<br>Escherichia coli<br>presumptive<br>(Detection &<br>Enumeration)                                                                                         | ISO 7251: 2005                                                                                                        | Present / Absent in X g                                                        |

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**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 6 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

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|-----|----------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
|     |                                  | Escherichia coli (Detection & Enumeration)                                                    | IS:5887 (Part 1)-1976                                                                             | Present / Absent in X g<br>0.3 MPN/g/ml to 11000 MPN/g/ml |
|     |                                  | Sulfite Reducing Anaerobic bacteria/ spores<br>Sulfite Reducing Anaerobic Clostridia / spores | ISO 15213 :2003<br>LI-00.765-3 (Nov 2016)                                                         | ≥10 cfu/g                                                 |
|     |                                  | B. cereus presumptive<br>B.cereus spores presumptive Enumeration (Quantitative)               | ISO 7932 : 2004<br>IS 5887 (Part 6) : 2012<br>LI-00.765-3 (Nov 2016)                              | ≥10 cfu/g                                                 |
|     |                                  | Shigella spp.                                                                                 | IS -5887-Part -7 (RA 2013)                                                                        | Present / Absent in X g                                   |
|     |                                  | Vibrio cholera                                                                                | IS -5887-Part -5                                                                                  | Present / Absent in X g                                   |
|     |                                  | -Yeast & Moulds<br>-Yeast<br>- mould                                                          | IS- 5403:1999<br>SOP MCLMBO-WI-140 (Oct 2017)                                                     | ≥10 cfu/g<br>Present / Absent in X g                      |
|     |                                  | Listeria monocytogenes (and Listeria spp)<br>- Qualitative Detection                          | LI-00.755-1 (Aug 2013)<br>LI-00.765-3 (Nov 2016)                                                  | Present / Absent in X g                                   |
| 4.  | <b>Coffee and Cocoa Products</b> | Salmonella                                                                                    | LI-00.713-5 (July 2012) (ISO 6579)<br>IS 5887 (Part 3 ) :1999 (RA 2013)<br>LI-00.765-3 (Nov 2016) | Qualitative (Present / Absent in X g)                     |
|     |                                  | Salmonella                                                                                    | LI-00.746-2 (June 2017) (ELISA)<br>LI-00.765-3 (Nov 2016)                                         | Qualitative (Present / Absent in X g)                     |

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**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 7 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

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|     |                            | Coliform<br>- Qualitative Detection                                                                     | ISO 4831:2006 /<br>IS 5401 Part 2:2012<br>LI-00.765-3<br>(Nov 2016)                          | Present / Absent in X g / ml                                                               |
|     |                            | Aerobic Mesophilic microorganisms                                                                       | ISO 4833-1:2013<br>IS 5402 :2012<br>LI-00.765-3<br>(Nov 2016)                                | ≥1 cfu /ml<br><br><b>≥10 cfu /g</b>                                                        |
|     |                            | Staphylococcus aureus<br>Coagulase positive<br>Staphylococci<br>-Qualitative Detection                  | ISO 6888 – 3 :2003<br>LI-00.765-3<br>(Nov 2016)                                              | Present /Absent in X g / ml                                                                |
|     |                            | Enterobacteriaceae<br>(Detection & Enumeration)<br>Enterobacteriaceae,<br>Enumeration<br>(Quantitative) | ISO 21528-1:2017<br>LI-00.765-3 (Nov 2016)<br><br>ISO 21528-2:2017<br>LI-00.765-3 (Nov 2016) | Present / Absent in X g / ml<br>0.3 MPN/g/ml to 11000 MPN/g/ml<br>≥1 cfu /ml<br>≥10 cfu /g |
|     |                            | Listeria monocytogenes<br>Detection (Qualitative)                                                       | ISO 11290-1:2017<br>IS 14988 (Part 1) :2001<br>(RA 2012)<br>LI-00.765-3<br>(Nov 2016)        | Present /Absent in X g / ml                                                                |
|     |                            | Escherichia coli,<br>Escherichia coli presumptive<br>Detection & Enumeration                            | ISO 7251: 2005<br>LI-00.765-3<br>(Nov 2016)                                                  | Present / Absent in X g / ml                                                               |
|     |                            | Escherichia coli<br>Detection & Enumeration                                                             | IS:5887 (Part 1)-1976<br>(RA 2013)                                                           | Present / Absent in X g / ml<br>0.3 MPN/g/ml to 11000 MPN/g/ml                             |
|     |                            | Lactic acid bacteria                                                                                    | LI-00.731-2 (Jan 2011)<br>(ISO 15214:1998)<br>LI-00.765-3 (Nov 2016)                         | ≥1 cfu / ml<br><br>≥10 cfu/g                                                               |

**Rini Narayan**  
Convenor

**N. Venkateswaran**  
Program Director

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**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 8 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

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|-----|----------------------------|------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
|     |                            | Shigella spp.                                                                                                          | IS -5887-Part -7 (RA 2013)                                                                         | Present / Absent in X g / ml                                   |
|     |                            | Vibrio cholera                                                                                                         | IS -5887-Part -5 (RA 2013)                                                                         | Present / Absent in X g / ml                                   |
|     |                            | Listeria monocytogenes (and Listeria spp)<br>- Qualitative Detection                                                   | LI-00.755-1 (Aug 2013)<br>LI-00.765-3 (Nov 2016)                                                   | Present / Absent in X g / ml                                   |
| 5.  | Edible colours & flavours  | Salmonella                                                                                                             | LI-00.713-5 (July 2012) (ISO 6579) IS 5887 (Part 3):1999(RA 2013)<br>LI-00.765-3 Nov2016           | Qualitative (Present / Absent in X g)                          |
|     |                            | Salmonella                                                                                                             | LI-00.746-2 (June 2017) (ELISA)<br>LI-00.765-3 (Nov 2016)                                          | Qualitative (Present / Absent in X g)                          |
|     |                            | Coliform<br>- Qualitative Detection                                                                                    | ISO 4831:2006<br>IS 5401 Part 2:2012<br>LI-00.765-3 (Nov 2016)                                     | Present / Absent in X g / ml                                   |
|     |                            | Aerobic Mesophilic microorganisms                                                                                      | ISO 4833-1:2013<br>IS 5402 :2012<br>LI-00.765-3 (Nov 2016)                                         | ≥1 cfu ml<br>≥10 cfu /g                                        |
|     |                            | - Yeasts & Moulds<br>- Yeasts<br>- Moulds                                                                              | ISO 21527-2:2008<br>LI-00.765-3 (Nov 2016)                                                         | ≥1 cfu /ml<br>≥10 cfu /g                                       |
|     |                            | Staphylococcus aureus<br>Coagulase positive<br>Staphylococci<br>- Enumeration (Quantitative)<br>-Qualitative Detection | ISO 6888 – 1 :1999 IS 5887 (Part 8/Sec 1):2002<br><br>ISO 6888 – 3 :2003<br>LI-00.765-3 (Nov 2016) | ≥1 cfu / ml<br>≥10 cfu /g<br><br>Present /Absent in X g / ml   |
|     |                            | Enterobacteriaceae (Detection & Enumeration)                                                                           | ISO 21528-1:2017<br>LI-00.765-3 (Nov 2016)                                                         | Present / Absent in X g / ml<br>0.3 MPN/g/ml to 11000 MPN/g/ml |

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**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 9 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed                                                            | Test Method Specification against which tests are performed                                       | Range of Testing / Limits of Detection                         |
|-----|----------------------------|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
|     |                            | Enterobacteriaceae, Enumeration (Quantitative)                                     | ISO 21528-2:2017<br>LI-00.765-3 (Nov 2016)                                                        | ≥10 cfu /g                                                     |
|     |                            | Escherichia coli, Escherichia coli presumptive (Detection & Enumeration)           | ISO 7251: 2005<br>LI-00.765-3 (Nov 2016)                                                          | Present / Absent in X g / ml                                   |
|     |                            | Escherichia coli (Detection & Enumeration)                                         | IS:5887 (Part 1)-1976 (RA 2013)                                                                   | Present / Absent in X g / ml<br>0.3 MPN/g/ml to 11000 MPN/g/ml |
|     |                            | Shigella spp.                                                                      | IS -5887-Part -7 (RA 2013)                                                                        | Present / Absent in X g / ml                                   |
|     |                            | Vibrio cholera                                                                     | IS -5887-Part -5 (RA 2013)                                                                        | Present / Absent in X g /ml                                    |
|     |                            | Listeria monocytogenes (and Listeria spp) - Qualitative Detection                  | LI-00.755-1 (Aug 2013)<br>LI-00.765-3 (Nov 2016)                                                  | Present / Absent in X g /ml                                    |
|     |                            | B. cereus presumptive<br>B.cereus spores presumptive<br>Enumeration (Quantitative) | ISO 7932 : 2004<br>IS 5887 (Part 6) : 2012<br>LI-00.765-3 (Nov 2016)                              | ≥1 cfu/ ml<br>≥10 cfu/g                                        |
| 6.  | Edible oils & fats         | Salmonella                                                                         | LI-00.713-5 (July 2012) (ISO 6579)<br>IS 5887 (Part 3 ) :1999 (RA 2013)<br>LI-00.765-3 (Nov 2016) | Qualitative (Present / Absent in X g)                          |
|     |                            | Salmonella                                                                         | LI-00.746-2 (June 2017) (ELISA)<br>LI-00.765-3 (Nov 2016)                                         | Qualitative (Present / Absent in X g)                          |

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**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 10 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed                                                                                     | Test Method Specification against which tests are performed                                  | Range of Testing / Limits of Detection                                                          |
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|     |                            | Coliform<br>- Qualitative Detection                                                                         | ISO 4831:2006<br>IS 5401 Part 2:2012<br>LI-00.765-3<br>(Nov 2016)                            | Present / Absent in X g / ml                                                                    |
|     |                            | Aerobic Mesophilic microorganisms                                                                           | ISO 4833-1:2013<br>IS 5402 :2012<br>LI-00.765-3<br>(Nov 2016)                                | ≥1 cfu / ml<br>≥10 cfu /g                                                                       |
|     |                            | - Yeasts & Moulds<br>- Yeasts<br>- Moulds                                                                   | ISO 21527-2:2008<br>LI-00.765-3<br>(Nov 2016)                                                | ≥1 cfu / ml<br>≥10 cfu /g                                                                       |
|     |                            | Staphylococcus aureus<br>Coagulase positive<br>Staphylococci<br>-Qualitative Detection                      | ISO 6888 – 3 :2003<br>LI-00.765-3<br>(Nov 2016)                                              | Present /Absent in X g / ml                                                                     |
|     |                            | Enterobacteriaceae<br>(Detection & Enumeration)<br><br>Enterobacteriaceae,<br>Enumeration<br>(Quantitative) | ISO 21528-1:2017<br>LI-00.765-3 (Nov 2016)<br><br>ISO 21528-2:2017<br>LI-00.765-3 (Nov 2016) | Present / Absent in X g / ml<br>0.3 MPN/g/ml to 11000 MPN/g/ml<br><br>≥1 cfu / ml<br>≥10 cfu /g |
|     |                            | Listeria monocytogenes<br>Detection (Qualitative)                                                           | ISO 11290-1:2017<br>IS 14988 (Part 1) :2001<br>(RA 2012)<br>LI-00.765-3<br>(Nov 2016)        | Present /Absent in X g / ml                                                                     |
|     |                            | Escherichia coli,<br>Escherichia coli presumptive<br>(Detection & Enumeration)                              | ISO 7251: 2005<br>LI-00.765-3<br>(Nov 2016)                                                  | Present / Absent in X g / ml                                                                    |
|     |                            | Escherichia coli<br>(Detection & Enumeration)                                                               | IS:5887 (Part 1)-1976<br>(RA 2013)                                                           | Present / Absent in X g / ml<br>0.3 MPN/g/ml to 11000 MPN/g/ml                                  |

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**Certificate Number** TC-5718

**Page 11 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test             | Specific Test Performed                                                                | Test Method Specification against which tests are performed                                          | Range of Testing / Limits of Detection                    |
|-----|----------------------------------------|----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
|     |                                        | Shigella spp.                                                                          | IS -5887-Part -7 (RA 2013)                                                                           | Present / Absent in X g / ml                              |
|     |                                        | Vibrio cholera                                                                         | IS -5887-Part -5 (RA 2013)                                                                           | Present / Absent in X g /ml                               |
|     |                                        | Listeria monocytogenes (and Listeria spp)<br>- Qualitative Detection                   | LI-00.755-1 (Aug 2013)<br>LI-00.765-3 (Nov 2016)                                                     | Present / Absent in X g /ml                               |
| 7.  | Essential nutrients including vitamins | Salmonella                                                                             | LI-00.713-5 (July 2012)<br>(ISO 6579)<br>IS 5887 (Part 3 ) :1999 (RA 2013)<br>LI-00.765-3 (Nov 2016) | Qualitative (Present / Absent in X g)                     |
|     |                                        | Salmonella                                                                             | LI-00.746-2 (June 2017) (ELISA)<br>LI-00.765-3 (Nov 2016)                                            | Qualitative (Present / Absent in X g)                     |
|     |                                        | Coliform<br>- Qualitative Detection                                                    | ISO 4831:2006<br>IS 5401 Part 2:2012<br>LI-00.765-3 (Nov 2016)                                       | Present / Absent in X g                                   |
|     |                                        | Aerobic Mesophilic microorganisms                                                      | ISO 4833-1:2013<br>IS 5402 :2012<br>LI-00.765-3 (Nov 2016)                                           | ≥10 cfu /g                                                |
|     |                                        | Staphylococcus aureus<br>Coagulase positive<br>Staphylococci<br>-Qualitative Detection | ISO 6888 – 3 :2003<br>LI-00.765-3 (Nov 2016)                                                         | Present /Absent in X g                                    |
|     |                                        | Enterobacteriaceae<br>(Detection & Enumeration)                                        | ISO 21528-1:2017<br>LI-00.765-3 (Nov 2016)                                                           | Present / Absent in X g<br>0.3 MPN/g/ml to 11000 MPN/g/ml |

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**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 12 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test              | Specific Test Performed                                                  | Test Method Specification against which tests are performed                                       | Range of Testing / Limits of Detection                    |
|-----|-----------------------------------------|--------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
|     |                                         | Enterobacteriaceae, Enumeration (Quantitative)                           | ISO 21528-2:2017<br>LI-00.765-3 (Nov 2016)                                                        | ≥10 cfu /g                                                |
|     |                                         | Listeria monocytogenes Detection (Qualitative)                           | ISO 11290-1:2017<br>IS 14988 (Part 1) :2001 (RA 2012)<br>LI-00.765-3 (Nov 2016)                   | Present /Absent in X g                                    |
|     |                                         | Escherichia coli, Escherichia coli presumptive (Detection & Enumeration) | ISO 7251: 2005<br>LI-00.765-3 (Nov 2016)                                                          | Present / Absent in X g                                   |
|     |                                         | Escherichia coli (Detection & Enumeration)                               | IS:5887 (Part 1)-1976 (RA 2013)                                                                   | Present / Absent in X g<br>0.3 MPN/g/ml to 11000 MPN/g/ml |
|     |                                         | Shigella spp.                                                            | IS -5887-Part -7 (RA 2013)                                                                        | Present / Absent in X g                                   |
|     |                                         | Vibrio cholerae                                                          | IS -5887-Part -5 (RA 2013)                                                                        | Present / Absent in X g                                   |
|     |                                         | Listeria monocytogenes (and Listeria spp) - Qualitative Detection        | LI-00.755-1 (Aug 2013)<br>LI-00.765-3 (Nov 2016)                                                  | Present / Absent in X g                                   |
| 8.  | <b>Food additives and preservatives</b> | Salmonella                                                               | LI-00.713-5 (July 2012) (ISO 6579)<br>IS 5887 (Part 3 ) :1999 (RA 2013)<br>LI-00.765-3 (Nov 2016) | Qualitative (Present / Absent in X g)                     |
|     |                                         | Salmonella                                                               | LI-00.746-2 (June 2017) (ELISA)<br>LI-00.765-3 (Nov 2016)                                         | Qualitative (Present / Absent in X g)                     |

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**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 13 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed                                                                                 | Test Method Specification against which tests are performed                                  | Range of Testing / Limits of Detection                                      |
|-----|----------------------------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
|     |                            | Coliform<br>- Qualitative Detection                                                                     | ISO 4831:2006<br>IS 5401 Part 2:2012<br>LI-00.765-3<br>(Nov 2016)                            | Present / Absent in X g                                                     |
|     |                            | Aerobic Mesophilic microorganisms                                                                       | ISO 4833-1:2013<br>IS 5402 :2012<br>LI-00.765-3<br>(Nov 2016)                                | ≥10 cfu /g                                                                  |
|     |                            | - Yeasts & Moulds<br>- Yeasts<br>- Moulds                                                               | ISO 21527-2:2008<br>LI-00.765-3<br>(Nov 2016)                                                | ≥10 cfu /g                                                                  |
|     |                            | Staphylococcus aureus<br>Coagulase positive<br>Staphylococci<br>-Qualitative Detection                  | ISO 6888 – 3 :2003<br>LI-00.765-3<br>(Nov 2016)                                              | Present /Absent in X g                                                      |
|     |                            | Enterobacteriaceae<br>(Detection & Enumeration)<br>Enterobacteriaceae,<br>Enumeration<br>(Quantitative) | ISO 21528-1:2017<br>LI-00.765-3 (Nov 2016)<br><br>ISO 21528-2:2017<br>LI-00.765-3 (Nov 2016) | Present / Absent in X g<br><br>0.3 MPN/g/ml to 11000 MPN/g/ml<br>≥10 cfu /g |
|     |                            | Listeria monocytogenes<br>Detection (Qualitative)                                                       | ISO 11290-1:2017<br>IS 14988 (Part 1) :2001<br>(RA 2012)<br>LI-00.765-3<br>(Nov 2016)        | Present /Absent in X g                                                      |
|     |                            | Escherichia coli,<br>Escherichia coli presumptive<br>(Detection & Enumeration)                          | ISO 7251: 2005<br>LI-00.765-3<br>(Nov 2016)                                                  | Present / Absent in X g                                                     |
|     |                            | Escherichia coli<br>(Detection & Enumeration)                                                           | IS:5887 (Part 1)-1976<br>(RA 2013)                                                           | Present / Absent in X g<br>0.3 MPN/g/ml to 11000 MPN/g/ml                   |

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**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 14 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed                                                         | Test Method Specification against which tests are performed                                       | Range of Testing / Limits of Detection |
|-----|----------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------------|
|     |                            | B. cereus presumptive<br>B.cereus spores presumptive Enumeration (Quantitative) | ISO 7932 : 2004<br>IS 5887 (Part 6) : 2012<br>LI-00.765-3 (Nov 2016)                              | ≥10 cfu/g                              |
|     |                            | Shigella spp.                                                                   | IS -5887-Part -7 (RA 2013)                                                                        | Present / Absent in X g                |
|     |                            | Vibrio cholera                                                                  | IS -5887-Part -5 (RA 2013)                                                                        | Present / Absent in X g                |
|     |                            | Listeria monocytogenes (and Listeria spp)<br>- Qualitative Detection            | LI-00.755-1 (Aug 2013)<br>LI-00.765-3 (Nov 2016)                                                  | Present / Absent in X g                |
| 9.  | Fruit and Fruit products   | Salmonella                                                                      | LI-00.713-5 (July 2012) (ISO 6579)<br>IS 5887 (Part 3 ) :1999 (RA 2013)<br>LI-00.765-3 (Nov 2016) | Qualitative (Present / Absent in X g)  |
|     |                            | Salmonella                                                                      | LI-00.746-2 (June 2017) (ELISA)<br>LI-00.765-3 (Nov 2016)                                         | Qualitative (Present / Absent in X g)  |
|     |                            | Coliform<br>- Qualitative Detection                                             | ISO 4831:2006 / IS 5401 Part 2:2012<br>LI-00.765-3 (Nov 2016)                                     | Present / Absent in X g / ml           |
|     |                            | Aerobic Mesophilic microorganisms                                               | ISO 4833-1:2013<br>IS 5402 :2012<br>LI-00.765-3 (Nov 2016)                                        | ≥1 cfu / ml<br>≥10 cfu /g              |
|     |                            | - Yeasts & Moulds<br>- Yeasts<br>- Moulds                                       | ISO 21527-2:2008<br>LI-00.765-3 (Nov 2016)                                                        | ≥1 cfu / ml<br>≥10 cfu /g              |

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**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
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**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 15 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed                                                                                        | Test Method Specification against which tests are performed                                  | Range of Testing / Limits of Detection                                                          |
|-----|----------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
|     |                            | Staphylococcus aureus<br>Coagulase positive<br>Staphylococci<br>-Qualitative Detection                         | ISO 6888 – 3 :2003<br>LI-00.765-3<br>(Nov 2016)                                              | Present /Absent in X g/ ml                                                                      |
|     |                            | Enterobacteriaceae<br>(Detection &<br>Enumeration)<br><br>Enterobacteriaceae,<br>Enumeration<br>(Quantitative) | ISO 21528-1:2017<br>LI-00.765-3 (Nov 2016)<br><br>ISO 21528-2:2017<br>LI-00.765-3 (Nov 2016) | Present / Absent in X g / ml<br>0.3 MPN/g/ml to 11000 MPN/g/ml<br><br>≥1 cfu / ml<br>≥10 cfu /g |
|     |                            | Bacterial spores<br>- Flat sour spores 30 min 100°C/ 48 h 55°C                                                 | LI-00.718-2 (Dec 2013)<br>LI-00.765-3 (Nov 2016)<br>SOP MCLMBO-WI-140 (Oct 2017)             | ≥1 cfu / ml<br>≥10 cfu /g<br>Present / Absent in X g                                            |
|     |                            | Listeria monocytogenes<br>Detection (Qualitative)                                                              | ISO 11290-1:2017<br>IS 14988 (Part 1) :2001 (RA 2012)<br>LI-00.765-3 (Nov 2016)              | Present /Absent in X g / ml                                                                     |
|     |                            | Escherichia coli,<br>Escherichia coli presumptive<br>(Detection & Enumeration)                                 | ISO 7251: 2005<br>LI-00.765-3 (Nov 2016)                                                     | Present / Absent in X g / ml                                                                    |
|     |                            | Escherichia coli<br>(Detection & Enumeration)                                                                  | IS:5887 (Part 1)-1976 (RA 2013)                                                              | Present / Absent in X g / ml<br>0.3 MPN/g/ml to 11000 MPN/g/ml                                  |
|     |                            | Shigella spp.                                                                                                  | IS -5887-Part -7 (RA 2013)                                                                   | Present / Absent in X g / ml                                                                    |
|     |                            | Vibrio cholera                                                                                                 | IS -5887-Part -5 (RA 2013)                                                                   | Present / Absent in X g /ml                                                                     |

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**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 16 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed                                                                | Test Method Specification against which tests are performed                                                   | Range of Testing / Limits of Detection                    |
|-----|----------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
|     |                            | Clostridium perfringens bacteria and spores                                            | ISO 7937 :2004<br>LI-00.765-3<br>(Nov 2016)                                                                   | ≥1 cfu/ ml<br>≥10 cfu/g                                   |
|     |                            | Listeria monocytogenes (and Listeria spp)<br>- Qualitative Detection                   | LI-00.755-1 (Aug 2013)<br>LI-00.765-3 (Nov 2016)                                                              | Present / Absent in X g / ml                              |
| 10. | Gelatin & other gums       | Salmonella                                                                             | LI-00.713-5<br>(July 2012)<br>(ISO 6579)<br>IS 5887 (Part 3 ) :1999<br>(RA 2013)<br>LI-00.765-3<br>(Nov 2016) | Qualitative (Present / Absent in X g)                     |
|     |                            | Salmonella                                                                             | LI-00.746-2 (June 2017)<br>(ELISA)<br>LI-00.765-3<br>(Nov 2016)                                               | Qualitative (Present / Absent in X g)                     |
|     |                            | Coliform<br>- Qualitative Detection                                                    | ISO 4831:2006 /<br>IS 5401 Part 2:2012<br>LI-00.765-3<br>(Nov 2016)                                           | Present / Absent in X g                                   |
|     |                            | Aerobic Mesophilic microorganisms                                                      | ISO 4833-1:2013<br>IS 5402 :2012<br>LI-00.765-3<br>(Nov 2016)                                                 | ≥10 cfu /g                                                |
|     |                            | - Yeasts & Moulds<br>- Yeasts<br>- Moulds                                              | ISO 21527-2:2008<br>LI-00.765-3<br>(Nov 2016)                                                                 | ≥10 cfu /g                                                |
|     |                            | Staphylococcus aureus<br>Coagulase positive<br>Staphylococci<br>-Qualitative Detection | ISO 6888 – 3 :2003<br>LI-00.765-3<br>(Nov 2016)                                                               | Present /Absent in X g                                    |
|     |                            | Enterobacteriaceae<br>(Detection & Enumeration)                                        | ISO 21528-1:2017<br>LI-00.765-3 (Nov 2016)                                                                    | Present / Absent in X g<br>0.3 MPN/g/ml to 11000 MPN/g/ml |

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**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 17 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed                                                  | Test Method Specification against which tests are performed                                       | Range of Testing / Limits of Detection                    |
|-----|----------------------------|--------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
|     |                            | Enterobacteriaceae, Enumeration (Quantitative)                           | ISO 21528-2:2017<br>LI-00.765-3 (Nov 2016)                                                        | ≥10 cfu /g                                                |
|     |                            | Listeria monocytogenes Detection (Qualitative)                           | ISO 11290-1:2017<br>IS 14988 (Part 1) :2001(RA 2012)<br>LI-00.765-3 (Nov 2016)                    | Present / Absent in X g                                   |
|     |                            | Escherichia coli, Escherichia coli presumptive (Detection & Enumeration) | ISO 7251: 2005<br>LI-00.765-3 (Nov 2016)                                                          | Present / Absent in X g                                   |
|     |                            | Escherichia coli (Detection & Enumeration)                               | IS:5887 (Part 1)-1976 (RA 2013)                                                                   | Present / Absent in X g<br>0.3 MPN/g/ml to 11000 MPN/g/ml |
|     |                            | Shigella spp.                                                            | IS -5887-Part -7 (RA 2013)                                                                        | Present / Absent in X g                                   |
|     |                            | Vibrio cholera                                                           | IS -5887-Part -5 (RA 2013)                                                                        | Present / Absent in X g                                   |
|     |                            | Listeria monocytogenes (and Listeria spp) - Qualitative Detection        | LI-00.755-1 (Aug 2013)<br>LI-00.765-3 (Nov 2016)                                                  | Present / Absent in X g                                   |
| 11. | Herbs, spices & condiments | Salmonella                                                               | LI-00.713-5 (July 2012) (ISO 6579)<br>IS 5887 (Part 3 ) :1999 (RA 2013)<br>LI-00.765-3 (Nov 2016) | Qualitative (Present / Absent in X g)                     |

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**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 18 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed                                                                                                | Test Method Specification against which tests are performed                                        | Range of Testing / Limits of Detection                                      |
|-----|----------------------------|------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
|     |                            | Salmonella                                                                                                             | LI-00.746-2 (June 2017) (ELISA)<br>LI-00.765-3 (Nov 2016)                                          | Qualitative (Present / Absent in X g)                                       |
|     |                            | Coliform<br>- Qualitative Detection                                                                                    | ISO 4831:2006<br>IS 5401 Part 2:2012<br>LI-00.765-3 (Nov 2016)                                     | Present / Absent in X g                                                     |
|     |                            | Aerobic Mesophilic microorganisms                                                                                      | ISO 4833-1:2013<br>IS 5402 :2012<br>LI-00.765-3 (Nov 2016)                                         | ≥10 cfu /g                                                                  |
|     |                            | - Yeasts & Moulds<br>- Yeasts<br>- Moulds                                                                              | ISO 21527-2:2008<br>LI-00.765-3 (Nov 2016)                                                         | ≥10 cfu /g                                                                  |
|     |                            | Staphylococcus aureus<br>Coagulase positive<br>Staphylococci<br>- Enumeration (Quantitative)<br>-Qualitative Detection | ISO 6888 – 1 :1999 IS 5887 (Part 8/Sec 1):2002<br><br>ISO 6888 – 3 :2003<br>LI-00.765-3 (Nov 2016) | ≥10 cfu /g<br><br>Present /Absent in X g                                    |
|     |                            | Enterobacteriaceae<br>Detection & Enumeration<br><br>Enterobacteriaceae, Enumeration (Quantitative)                    | ISO 21528-1:2017<br>LI-00.765-3 (Nov 2016)<br><br>ISO 21528-2:2017<br>LI-00.765-3 (Nov 2016)       | Present / Absent in X g<br>0.3 MPN/g/ml to 11000 MPN/g/ml<br><br>≥10 cfu /g |
|     |                            | Bacterial spores<br>Flat sour spores 30 min 100°C/ 48 h 55°C                                                           | LI-00.718-2 (Dec 2013)<br>LI-00.765-3 (Nov 2016)<br>SOP MCLMBO-WI-140 (Oct 2017)                   | ≥10 cfu /g<br>Present / Absent in X g                                       |
|     |                            | Listeria monocytogenes<br>Detection (Qualitative)                                                                      | ISO 11290-1:2017<br>IS 14988 (Part 1) :2001 (RA 2012)<br>LI-00.765-3 (Nov 2016)                    | Present /Absent in X g                                                      |

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**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
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**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 19 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed                                                                                   | Test Method Specification against which tests are performed             | Range of Testing / Limits of Detection                       |
|-----|----------------------------|-----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|--------------------------------------------------------------|
|     |                            | B. cereus presumptive<br>B.cereus spores presumptive<br>Enumeration<br>(Quantitative)                     | ISO 7932 : 2004<br>IS 5887 (Part 6) : 2012<br>LI-00.765-3<br>(Nov 2016) | ≥10 cfu/g                                                    |
|     |                            | Escherichia coli,<br>Escherichia coli presumptive<br>(Detection & Enumeration)                            | ISO 7251: 2005<br>LI-00.765-3<br>(Nov 2016)                             | Present / Absent in X g                                      |
|     |                            | Escherichia coli<br>(Detection & Enumeration)                                                             | IS:5887 (Part 1)-1976<br>(RA 2013)                                      | Present / Absent in X g<br>0.3 MPN/g/ml to 11000<br>MPN/g/ml |
|     |                            | Shigella spp.                                                                                             | IS -5887-Part -7<br>(RA 2013)                                           | Present / Absent in X g                                      |
|     |                            | Vibrio cholera                                                                                            | IS -5887-Part -5<br>(RA 2013)                                           | Present / Absent in X g                                      |
|     |                            | Listeria monocytogenes (and<br>Listeria spp)<br>- Qualitative Detection                                   | LI-00.755-1 (Aug 2013)<br>LI-00.765-3 (Nov 2016)                        | Present / Absent in X g                                      |
|     |                            | Clostridium perfringens<br>bacteria and spores                                                            | ISO 7937 :2004<br>LI-00.765-3<br>(Nov 2016)                             | ≥10 cfu/g                                                    |
|     |                            | Sulfite Reducing<br>Anaerobic bacteria/<br>spores<br>Sulfite Reducing<br>Anaerobic Clostridia /<br>spores | ISO 15213 :2003<br>LI-00.765-3<br>(Nov 2016)                            | ≥10 cfu/g                                                    |

**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 20 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed                                                       | Test Method Specification against which tests are performed                                         | Range of Testing / Limits of Detection                         |
|-----|----------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| 12. | Honey & Honey products     | Salmonella                                                                    | LI-00.713-5 (July 2012)<br>(ISO 6579)<br>IS 5887 (Part 3) :1999 (RA 2013)<br>LI-00.765-3 (Nov 2016) | Qualitative (Present / Absent in X g)                          |
|     |                            | Salmonella                                                                    | LI-00.746-2 (June 2017) (ELISA)<br>LI-00.765-3 (Nov 2016)                                           | Qualitative (Present / Absent in X g)                          |
|     |                            | Coliform - Qualitative Detection                                              | ISO 4831:2006<br>IS 5401 Part 2:2012<br>LI-00.765-3 (Nov 2016)                                      | Present / Absent in X g / ml                                   |
|     |                            | Aerobic Mesophilic microorganisms                                             | ISO 4833-1:2013<br>IS 5402 :2012<br>LI-00.765-3 (Nov 2016)                                          | ≥1 cfu / ml<br>≥10 cfu /g                                      |
|     |                            | Staphylococcus aureus Coagulase positive Staphylococci -Qualitative Detection | ISO 6888 – 3 :2003<br>LI-00.765-3 (Nov 2016)                                                        | Present /Absent in X g / ml                                    |
|     |                            | Enterobacteriaceae (Detection & Enumeration)                                  | ISO 21528-1:2017<br>LI-00.765-3 (Nov 2016)                                                          | Present / Absent in X g / ml<br>0.3 MPN/g/ml to 11000 MPN/g/ml |
|     |                            | Enterobacteriaceae, Enumeration (Quantitative)                                | ISO 21528-2:2017<br>LI-00.765-3 (Nov 2016)                                                          | ≥1 cfu / ml<br>≥10 cfu /g                                      |
|     |                            | Bacterial spores -Flat sour spores 30 min 100°C/ 48 h 55°C                    | LI-00.718-2 (Dec 2013)<br>LI-00.765-3 (Nov 2016)<br>SOP MCLMBO-WI-140 (Oct 2017)                    | ≥1 cfu / ml<br>≥10 cfu /g<br>Present / Absent in X g           |

**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 21 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed                                                                       | Test Method Specification against which tests are performed                                       | Range of Testing / Limits of Detection                         |
|-----|----------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
|     |                            | Listeria monocytogenes Detection (Qualitative)                                                | ISO 11290-1:2017<br>IS 14988 (Part 1) :2001 (RA 2012)<br>LI-00.765-3 (Nov 2016)                   | Present / Absent in X g / ml                                   |
|     |                            | Escherichia coli, Escherichia coli presumptive (Detection & Enumeration)                      | ISO 7251: 2005<br>LI-00.765-3 (Nov 2016)                                                          | Present / Absent in X g / ml                                   |
|     |                            | Escherichia coli (Detection & Enumeration)                                                    | IS:5887 (Part 1)-1976 (RA 2013)                                                                   | Present / Absent in X g / ml<br>0.3 MPN/g/ml to 11000 MPN/g/ml |
|     |                            | Shigella spp.                                                                                 | IS -5887-Part -7 (RA 2013)                                                                        | Present / Absent in X g / ml                                   |
|     |                            | Vibrio cholera                                                                                | IS -5887-Part -5 (RA 2013)                                                                        | Present / Absent in X g / ml                                   |
|     |                            | Sulfite Reducing Anaerobic bacteria/ spores<br>Sulfite Reducing Anaerobic Clostridia / spores | ISO 15213 :2003<br>LI-00.765-3 (Nov 2016)                                                         | ≥1 cfu / ml<br>≥10 cfu/g                                       |
|     |                            | Listeria monocytogenes (and Listeria spp) - Qualitative Detection                             | LI-00.755-1 (Aug 2013)<br>LI-00.765-3 (Nov 2016)                                                  | Present / Absent in X g / ml                                   |
| 13. | Infant Foods               | Salmonella                                                                                    | LI-00.713-5 (July 2012) (ISO 6579)<br>IS 5887 (Part 3 ) :1999 (RA 2013)<br>LI-00.765-3 (Nov 2016) | Qualitative (Present / Absent in X g)                          |

**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 22 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed                                                                                                | Test Method Specification against which tests are performed                                                    | Range of Testing / Limits of Detection                                      |
|-----|----------------------------|------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
|     |                            | Salmonella                                                                                                             | LI-00.746-2 (June 2017) (ELISA)<br>LI-00.765-3 (Nov 2016)                                                      | Qualitative (Present / Absent in X g)                                       |
|     |                            | Coliform<br>- Qualitative Detection                                                                                    | ISO 4831:2006<br>IS 5401 Part 2:2012<br>LI-00.765-3 (Nov 2016)                                                 | Present / Absent in X g                                                     |
|     |                            | Coliform Enumeration (Quantitative)                                                                                    | ISO 4832:2006<br>IS 5401 Part 1:2012 (RA 2012)<br>LI-00.765-3 (Nov 2016)                                       | ≥10 cfu/g                                                                   |
|     |                            | Aerobic Mesophilic microorganisms                                                                                      | ISO 4833-1:2013<br>IS 5402 :2012<br>LI-00.765-3 (Nov 2016)                                                     | ≥10 cfu/g                                                                   |
|     |                            | - Yeasts & Moulds<br>- Yeasts<br>- Moulds                                                                              | ISO 21527-2:2008<br>LI-00.765-3 (Nov 2016)                                                                     | ≥10 cfu/g                                                                   |
|     |                            | Staphylococcus aureus<br>Coagulase positive<br>Staphylococci<br>- Enumeration (Quantitative)<br>-Qualitative Detection | ISO 6888 – 1 :1999 / IS 5887 (Part 8/Sec 1):2002 (RA 2012)<br><br>ISO 6888 – 3 :2003<br>LI-00.765-3 (Nov 2016) | ≥10 cfu /g<br><br>Present /Absent in X g                                    |
|     |                            | Enterobacteriaceae (Detection & Enumeration)<br><br>Enterobacteriaceae, Enumeration (Quantitative)                     | ISO 21528-1:2017<br>LI-00.765-3 (Nov 2016)<br><br>ISO 21528-2:2017<br>LI-00.765-3 (Nov 2016)                   | Present / Absent in X g<br>0.3 MPN/g/ml to 11000 MPN/g/ml<br><br>≥10 cfu /g |

**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 23 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed                                                                       | Test Method Specification against which tests are performed                     | Range of Testing / Limits of Detection                    |
|-----|----------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------|
|     |                            | Listeria monocytogenes Detection (Qualitative)                                                | ISO 11290-1:2017<br>IS 14988 (Part 1) :2001 (RA 2012)<br>LI-00.765-3 (Nov 2016) | Present / Absent in X g                                   |
|     |                            | Escherichia coli, Escherichia coli presumptive (Detection & Enumeration)                      | ISO 7251: 2005<br>LI-00.765-3 (Nov 2016)                                        | Present / Absent in X g                                   |
|     |                            | Escherichia coli (Detection & Enumeration)                                                    | IS:5887 (Part 1)-1976 (RA 2013)                                                 | Present / Absent in X g<br>0.3 MPN/g/ml to 11000 MPN/g/ml |
|     |                            | Sulfite Reducing Anaerobic bacteria/ spores<br>Sulfite Reducing Anaerobic Clostridia / spores | ISO 15213 :2003<br>LI-00.765-3 (Nov 2016)                                       | ≥10 cfu/g                                                 |
|     |                            | B. cereus presumptive<br>B.cereus spores presumptive<br>Enumeration (Quantitative)            | ISO 7932 : 2004<br>IS 5887 (Part 6) : 2012<br>LI-00.765-3 (Nov 2016)            | ≥10 cfu/g                                                 |
|     |                            | Shigella spp.                                                                                 | IS -5887-Part -7 (RA 2013)                                                      | Present / Absent in X g                                   |
|     |                            | Vibrio cholera                                                                                | IS -5887-Part -5 (RA 2013)                                                      | Present / Absent in X g                                   |
|     |                            | -Yeast & Moulds<br>-Yeast<br>- mould                                                          | IS 5403:1999<br>SOP MCLMBO-WI-140 (Oct 2017)                                    | ≥10 cfu/g<br>Present / Absent in X g                      |
|     |                            | Listeria monocytogenes (and Listeria spp)<br>- Qualitative Detection                          | LI-00.755-1 (Aug 2013)<br>LI-00.765-3 (Nov 2016)                                | Present / Absent in X g                                   |

**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 24 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test          | Specific Test Performed                                                                                           | Test Method Specification against which tests are performed                                                 | Range of Testing / Limits of Detection                       |
|-----|-------------------------------------|-------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| 14. | Jams, Juices, Sauces & Concentrates | Salmonella                                                                                                        | LI-00.713-5 (July 2012) (ISO 6579) IS 5887 (Part 3 ) :1999 (RA 2013) LI-00.765-3 (Nov 2016)                 | Qualitative (Present / Absent in X g)                        |
|     |                                     | Salmonella                                                                                                        | LI-00.746-2 (June 2017) (ELISA) LI-00.765-3 (Nov 2016)                                                      | Qualitative (Present / Absent in X g)                        |
|     |                                     | Coliform - Qualitative Detection                                                                                  | ISO 4831:2006 IS 5401 Part 2:2012 LI-00.765-3 (Nov 2016)                                                    | Present / Absent in X g / ml                                 |
|     |                                     | Aerobic Mesophilic microorganisms                                                                                 | ISO 4833-1:2013 IS 5402 :2012 LI-00.765-3 (Nov 2016)                                                        | ≥1 cfu /ml<br>≥10 cfu /g                                     |
|     |                                     | - Yeasts & Moulds<br>- Yeasts<br>- Moulds                                                                         | ISO 21527-2:2008 LI-00.765-3 (Nov 2016)                                                                     | ≥1 cfu or ml<br>≥10 cfu /g                                   |
|     |                                     | -Yeast & Moulds<br>-Yeast<br>- mould                                                                              | IS 5403:1999 (RA 2013) SOP MCLMBO-WI-140 (Oct 2017)                                                         | ≥1 cfu / ml<br>≥10 cfu /g<br>Present / Absent in X g / ml    |
|     |                                     | Staphylococcus aureus Coagulase positive Staphylococci - Enumeration (Quantitative)<br><br>-Qualitative Detection | ISO 6888 – 1 :1999 / IS 5887 (Part 8/Sec 1):2002 (RA 2012)<br><br>ISO 6888 – 3 :2003 LI-00.765-3 (Nov 2016) | ≥1 cfu / ml<br>≥10 cfu /g<br><br>Present /Absent in X g / ml |



**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 25 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed                                                      | Test Method Specification against which tests are performed                      | Range of Testing / Limits of Detection                         |
|-----|----------------------------|------------------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------------------------------------------------|
|     |                            | Enterobacteriaceae (Detection & Enumeration)                                 | ISO 21528-1:2017<br>LI-00.765-3 (Nov 2016)                                       | Present / Absent in X g / ml<br>0.3 MPN/g/ml to 11000 MPN/g/ml |
|     |                            | Enterobacteriaceae, Enumeration (Quantitative)                               | ISO 21528-2:2017<br>LI-00.765-3 (Nov 2016)                                       | ≥1 cfu / ml<br>≥10 cfu /g                                      |
|     |                            | Listeria monocytogenes Detection (Qualitative)                               | ISO 11290-1:2017<br>IS 14988 (Part 1) :2001 (RA 2012)<br>LI-00.765-3 (Nov 2016)  | Present / Absent in X g / ml                                   |
|     |                            | Escherichia coli, Escherichia coli presumptive (Detection & Enumeration)     | ISO 7251: 2005<br>LI-00.765-3 (Nov 2016)                                         | Present / Absent in X g / ml                                   |
|     |                            | Escherichia coli (Detection & Enumeration)                                   | IS:5887 (Part 1)-1976 (RA 2013)                                                  | Present / Absent in X g / ml<br>0.3 MPN/g/ml to 11000 MPN/g/ml |
|     |                            | Bacterial spores -Flat sour spores 30 min 100°C/ 48 h 55°C                   | LI-00.718-2 (Dec 2013)<br>LI-00.765-3 (Nov 2016)<br>SOP MCLMBO-WI-140 (Oct 2017) | ≥1 cfu / ml<br>≥10 cfu /g<br>Present / Absent in X g           |
|     |                            | B. cereus presumptive B.cereus spores presumptive Enumeration (Quantitative) | ISO 7932 : 2004<br>IS 5887 (Part 6) : 2012<br>LI-00.765-3 (Nov 2016)             | ≥1 cfu / ml<br>≥10 cfu /g                                      |
|     |                            | Shigella spp.                                                                | IS -5887-(Part 7) (RA 2013)                                                      | Present / Absent in X g / ml                                   |
|     |                            | Sterility testing by direct streaking ( Yeast & Mold & Lactic acid bacteria) | LI-00.957-1 (Jan 2015)                                                           | Positive / Negative                                            |

**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 26 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed                                           | Test Method Specification against which tests are performed                                          | Range of Testing / Limits of Detection    |
|-----|----------------------------|-------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-------------------------------------------|
|     |                            | Vibrio cholera                                                    | IS -5887-(Part 5) (RA 2013)                                                                          | Present / Absent in X g /ml               |
|     |                            | Clostridium perfringens bacteria and spores                       | ISO 7937 :2004<br>LI-00.765-3 (Nov 2016)                                                             | ≥1 cfu/ ml<br>≥10 cfu/g                   |
|     |                            | Lactic acid bacteria                                              | LI-00.731-2 (Jan 2011)<br>(ISO 15214:1998)<br>LI-00.765-3 (Nov 2016)                                 | ≥1 cfu/ ml<br>≥10 cfu/g                   |
|     |                            | Howard mold count                                                 | IS- 3881 Annex E (RA 2013)<br>IS-3884 Annex D (RA 2013)                                              | Positive/ Negative (% of fields examined) |
|     |                            | Yeast & Spores (Microscopic method)                               | SOP - MCLMBO-19<br>Version 03 (June 2007)<br>(W.H.O.1974)                                            | ≥0.21 per 1/60 mm <sup>3</sup>            |
|     |                            | Listeria monocytogenes (and Listeria spp) - Qualitative Detection | LI-00.755-1 (Aug 2013)<br>LI-00.765-3 (Nov 2016)                                                     | Present / Absent in X g / ml              |
| 15. | Meat & Meat Products       | Salmonella                                                        | LI-00.713-5 (July 2012)<br>(ISO 6579)<br>IS 5887 (Part 3 ) :1999 (RA 2013)<br>LI-00.765-3 (Nov 2016) | Qualitative (Present / Absent in X g)     |
|     |                            | Salmonella                                                        | LI-00.746-2 (June 2017) (ELISA)<br>LI-00.765-3 (Nov 2016)                                            | Qualitative (Present / Absent in X g)     |
|     |                            | Coliform - Qualitative Detection                                  | ISO 4831:2006<br>IS 5401 Part 2:2012<br>LI-00.765-3 (Nov 2016)                                       | Present / Absent in X g                   |

**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 27 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed                                                                | Test Method Specification against which tests are performed                     | Range of Testing / Limits of Detection                    |
|-----|----------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------|
|     |                            | Aerobic Mesophilic microorganisms                                                      | ISO 4833-1:2013<br>IS 5402 :2012<br>LI-00.765-3 (Nov 2016)                      | ≥10 cfu /g                                                |
|     |                            | Staphylococcus aureus<br>Coagulase positive<br>Staphylococci<br>-Qualitative Detection | ISO 6888 – 3 :2003<br>LI-00.765-3 (Nov 2016)                                    | Present /Absent in X g                                    |
|     |                            | Enterobacteriaceae<br>(Detection & Enumeration)                                        | ISO 21528-1:2017<br>LI-00.765-3 (Nov 2016)                                      | Present / Absent in X g<br>0.3 MPN/g/ml to 11000 MPN/g/ml |
|     |                            | Enterobacteriaceae,<br>Enumeration<br>(Quantitative)                                   | ISO 21528-2:2017<br>LI-00.765-3 (Nov 2016)                                      | ≥10 cfu /g                                                |
|     |                            | Listeria monocytogenes<br>Detection (Qualitative)                                      | ISO 11290-1:2017<br>IS 14988 (Part 1) :2001 (RA 2012)<br>LI-00.765-3 (Nov 2016) | Present /Absent in X g                                    |
|     |                            | Escherichia coli,<br>Escherichia coli presumptive<br>(Detection & Enumeration)         | ISO 7251: 2005<br><br>LI-00.765-3 (Nov 2016)                                    | Present / Absent in X g                                   |
|     |                            | Escherichia coli<br>Detection & Enumeration                                            | IS:5887 (Part 1)-1976 (RA 2013)                                                 | Present / Absent in X g<br>0.3 MPN/g/ml to 11000 MPN/g    |
|     |                            | Shigella spp.                                                                          | IS -5887-Part -7 (RA 2013)                                                      | Present / Absent in X g                                   |
|     |                            | Vibrio cholera                                                                         | IS -5887-Part -5 (RA 2013)                                                      | Present / Absent in X g                                   |
|     |                            | Listeria monocytogenes (and Listeria spp)<br>- Qualitative Detection                   | LI-00.755-1 (Aug 2013)<br>LI-00.765-3 (Nov 2016)                                | Present / Absent in X g                                   |

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**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 28 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed                                                                                                    | Test Method Specification against which tests are performed                                                    | Range of Testing / Limits of Detection                     |
|-----|----------------------------|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| 16. | Milk & Dairy Products      | Salmonella                                                                                                                 | LI-00.713-5 (July 2012)<br>(ISO 6579)<br>IS 5887 (Part 3) :1999 (RA 2013)<br>LI-00.765-3 (Nov 2016)            | Qualitative (Present / Absent in X g)                      |
|     |                            | Salmonella                                                                                                                 | LI-00.746-2 (June 2017) (ELISA)<br>LI-00.765-3 (Nov 2016)                                                      | Qualitative (Present / Absent in X g)                      |
|     |                            | Coliform - Qualitative Detection                                                                                           | ISO 4831:2006<br>IS 5401 Part 2:2012<br>LI-00.765-3 (Nov 2016)                                                 | Present / Absent in X g / ml<br>≥0.3 MPN/g/ml              |
|     |                            | Coliform Enumeration (Quantitative)                                                                                        | ISO 4832:2006<br>IS 5401 Part 1:2012 (RA 2012)<br>LI-00.765-3 (Nov 2016)                                       | ≥1 cfu/ ml<br>≥10 cfu/g                                    |
|     |                            | Aerobic Mesophilic microorganisms                                                                                          | ISO 4833-1:2013<br>IS 5402 :2012<br>LI-00.765-3 (Nov 2016)                                                     | ≥1 cfu/ ml<br>≥10 cfu/g                                    |
|     |                            | - Yeasts & Moulds<br>- Yeasts<br>- Moulds                                                                                  | ISO 21527-1:2008<br>ISO 21527-2:2008<br>LI-00.765-3 (Nov 2016)                                                 | ≥1 cfu/ ml<br>≥10 cfu/g                                    |
|     |                            | Staphylococcus aureus<br>Coagulase positive<br>Staphylococci<br>- Enumeration (Quantitative)<br><br>-Qualitative Detection | ISO 6888 – 1 :1999 / IS 5887 (Part 8/Sec 1):2002 (RA 2012)<br><br>ISO 6888 – 3 :2003<br>LI-00.765-3 (Nov 2016) | ≥1 cfu/ ml<br>≥10 cfu/g<br><br>Present /Absent in X g / ml |

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**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 29 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed                                                                                                                                                                                                                     | Test Method Specification against which tests are performed                     | Range of Testing / Limits of Detection                                                        |
|-----|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
|     |                            | Enterobacteriaceae (Detection & Enumeration)                                                                                                                                                                                                | ISO 21528-1:2017<br>LI-00.765-3 (Nov 2016)                                      | Present / Absent in X g / ml<br>0.3 MPN/g/ml to 11000 MPN/g/ml                                |
|     |                            | Enterobacteriaceae, Enumeration (Quantitative)                                                                                                                                                                                              | ISO 21528-2:2017<br>LI-00.765-3 (Nov 2016)                                      | ≥1 cfu/ ml<br>≥10 cfu/g                                                                       |
|     |                            | Listeria monocytogenes Detection (Qualitative)                                                                                                                                                                                              | ISO 11290-1:2017<br>IS 14988 (Part 1) :2001 (RA 2012)<br>LI-00.765-3 (Nov 2016) | Present /Absent in X g / ml                                                                   |
|     |                            | Escherichia coli, Escherichia coli presumptive (Detection & Enumeration)                                                                                                                                                                    | ISO 7251: 2005<br>LI-00.765-3 (Nov 2016)                                        | Present / Absent in X g / ml<br>0.3 MPN/g/ml to 11000 MPN/g/ml                                |
|     |                            | Escherichia coli (Detection & Enumeration)                                                                                                                                                                                                  | IS:5887 (Part 1)-1976 (RA 2013)                                                 | Present / Absent in X g / ml<br>0.3 MPN/g/ml to 11000 MPN/g/ml<br>≥1 cfu/ ml<br>≥10 cfu/g /ml |
|     |                            | Bacterial spores<br>- Aerobic spores (10 min 80°C/ 72 h 30°C<br>- Aerobic spores 10 min 80°C/ 48 h 55°C<br>-Anaerobic spores 10 min 80°C/ 72 h 30°C<br>-Anaerobic spores 10 min 80°C/ 48 h 55°C<br>- Aerobic spores 30 min 100°C/ 48 h 55°C | I-00.718-2 (Dec 2013)<br>LI-00.765-3 (Nov 2016)                                 | ≥1 cfu/ ml<br>≥10 cfu/g /ml                                                                   |

**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 30 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed                                                                       | Test Method Specification against which tests are performed         | Range of Testing / Limits of Detection                  |
|-----|----------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------|
|     |                            | Sulfite Reducing Anaerobic bacteria/ spores<br>Sulfite Reducing Anaerobic Clostridia / spores | ISO 15213 :2003<br>LI-00.765-3 (Nov 2016)                           | ≥1 cfu/ ml<br>≥10 cfu/g /ml                             |
|     |                            | B. cereus presumptive<br>B.cereus spores presumptive<br>Enumeration (Quantitative)            | ISO 7932 : 2004 / IS 5887 (Part 6) : 2012<br>LI-00.765-3 (Nov 2016) | ≥1 cfu/ ml<br>≥10 cfu/g /ml                             |
|     |                            | Sterility testing by direct streaking                                                         | LI-00.957-1 (Jan 2015)                                              | Positive/ Negative                                      |
|     |                            | Shigella spp.                                                                                 | IS -5887-Part -7 (RA 2013)                                          | Present / Absent in X g / ml                            |
|     |                            | Vibrio cholera                                                                                | IS -5887-Part -5 (RA 2013)                                          | Present / Absent in X g /ml                             |
|     |                            | Clostridium perfringens bacteria and spores                                                   | ISO 7937 :2004<br>LI-00.765-3 (Nov 2016)                            | ≥1 cfu/ ml<br>≥10 cfu/g                                 |
|     |                            | -Yeast & Moulds<br>-Yeast<br>- mould                                                          | IS 5403:1999 (RA 2013)<br>SOP MCLMBO-WI-140 (Oct 2017)              | ≥1 cfu/ ml<br>≥10 cfu/g<br>Present / Absent in X g / ml |
|     |                            | Listeria monocytogenes (and Listeria spp)<br>- Qualitative Detection                          | LI-00.755-1 (Aug 2013)<br>LI-00.765-3 (Nov 2016)                    | Present / Absent in X g / ml                            |
|     |                            | Microorganisms culturable (In can Incubation test )                                           | LI-04.002 (Aug 2010) (Method developed by NRC , Laussane)           | ≥100 cfu /g                                             |
|     |                            | Microorganisms culturable (Quick test cocci ,Incubation test)                                 | LI-04.003 (Aug 2010) (Method developed by NRC , Laussane)           | ≥100 cfu /g                                             |

**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 31 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed                   | Test Method Specification against which tests are performed                                                       | Range of Testing / Limits of Detection |
|-----|----------------------------|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------|----------------------------------------|
|     |                            | Lactic acid bacteria                      | LI-00.731-2 (Jan 2011)<br>(ISO 15214:1998)<br>LI-00.765-3 (Nov 2016)                                              | ≥1 cfu/ml<br>≥10 cfu/g                 |
|     |                            | Coagulase positive Staphylococci          | LI-04.004 (Aug 2010)<br>(ISO 6888-1:1999)<br>(Method developed by NRC , Laussane)                                 | ≥10 cfu /g                             |
|     |                            | Psychotropic microorganisms               | ISO 8552 :2004<br>LI-00.765-3<br>(Nov 2016)                                                                       | ≥1 cfu/ ml<br>≥10 cfu/g                |
| 17. | Nuts & Nut Products        | Salmonella                                | LI-00.713-5<br>(July 2012)<br>(ISO 6579)<br>IS 5887 (Part 3 ) :1999<br>(RA 2013)<br><br>LI-00.765-3<br>(Nov 2016) | Qualitative (Present / Absent in X g)  |
|     |                            | Salmonella                                | LI-00.746-2 (June 2017)<br>(ELISA)<br>LI-00.765-3<br>(Nov 2016)                                                   | Qualitative (Present / Absent in X g)  |
|     |                            | Coliform<br>- Qualitative Detection       | ISO 4831:2006<br>IS 5401 Part 2:2012<br>LI-00.765-3<br>(Nov 2016)                                                 | Present / Absent in X g                |
|     |                            | Aerobic Mesophilic microorganisms         | ISO 4833-1:2013<br>IS 5402 :2012<br>LI-00.765-3<br>(Nov 2016)                                                     | ≥10 cfu /g                             |
|     |                            | - Yeasts & Moulds<br>- Yeasts<br>- Moulds | ISO 21527-2:2008<br>LI-00.765-3<br>(Nov 2016)                                                                     | ≥10 cfu / g                            |

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**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 32 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed                                                                                   | Test Method Specification against which tests are performed                          | Range of Testing / Limits of Detection                  |
|-----|----------------------------|-----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------|
|     |                            | Staphylococcus aureus<br>Coagulase positive<br>Staphylococci<br>-Qualitative Detection                    | ISO 6888 – 3 :2003<br>LI-00.765-3<br>(Nov 2016)                                      | Present /Absent in X g                                  |
|     |                            | Enterobacteriaceae<br>(Detection &<br>Enumeration)                                                        | ISO 21528-1:2017<br>LI-00.765-3 (Nov 2016)                                           | Present / Absent in X g<br>0.3 MPN/g to 11000<br>MPN/g  |
|     |                            | Enterobacteriaceae,<br>Enumeration<br>(Quantitative)                                                      | ISO 21528-2:2017<br>LI-00.765-3 (Nov 2016)                                           | ≥10 cfu /g                                              |
|     |                            | Escherichia coli,<br>Escherichia coli<br>presumptive<br>(Detection &<br>Enumeration)                      | ISO 7251: 2005<br>LI-00.765-3<br>(Nov 2016)                                          | Present / Absent in X g                                 |
|     |                            | Escherichia coli<br>(Detection &<br>Enumeration)                                                          | IS:5887 (Part 1)-1976<br>(RA 2013)                                                   | Present / Absent in X g<br>0.3 MPN/g to 11000<br>MPN/g/ |
|     |                            | Listeria<br>monocytogenes<br>Detection (Qualitative)                                                      | ISO 11290-1:2017<br>IS 14988 (Part 1) :2001(RA<br>2012)<br>LI-00.765-3<br>(Nov 2016) | Present /Absent in<br>X g                               |
|     |                            | Sulfite Reducing<br>Anaerobic bacteria/<br>spores<br>Sulfite Reducing<br>Anaerobic Clostridia /<br>spores | ISO 15213 :2003<br><br>LI-00.765-3<br>(Nov 2016)                                     | ≥10 cfu/g                                               |
|     |                            | Shigella spp.                                                                                             | IS -5887-Part -7<br>(RA 2013)                                                        | Present / Absent in X g                                 |
|     |                            | Vibrio cholera                                                                                            | IS -5887-Part -5<br>(RA 2013)                                                        | Present / Absent in X g                                 |

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**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 33 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed                                                                                                 | Test Method Specification against which tests are performed                                                    | Range of Testing / Limits of Detection   |
|-----|----------------------------|-------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|------------------------------------------|
|     |                            | Clostridium perfringens bacteria and spores                                                                             | ISO 7937 :2004<br>LI-00.765-3 (Nov 2016)                                                                       | ≥10 cfu/g                                |
|     |                            | Listeria monocytogenes (and Listeria spp)<br>- Qualitative Detection                                                    | LI-00.755-1 (Aug 2013)<br>LI-00.765-3 (Nov 2016)                                                               | Present / Absent in X g                  |
| 18. | Starch & Starch Products   | Salmonella                                                                                                              | LI-00.713-5 (July 2012)<br>(ISO 6579)<br>IS 5887 (Part 3 ) :1999 (RA 2013)<br><br>LI-00.765-3 (Nov 2016)       | Qualitative (Present / Absent in X g)    |
|     |                            | Salmonella                                                                                                              | LI-00.746-2 (June 2017) (ELISA)<br>LI-00.765-3 (Nov 2016)                                                      | Qualitative (Present / Absent in X g)    |
|     |                            | Coliform<br>- Qualitative Detection                                                                                     | ISO 4831:2006<br>IS 5401 Part 2:2012<br>LI-00.765-3 (Nov 2016)                                                 | Present / Absent in X g                  |
|     |                            | Aerobic Mesophilic microorganisms                                                                                       | ISO 4833-1:2013<br>IS 5402 :2012<br>LI-00.765-3 (Nov 2016)                                                     | ≥10 cfu /g                               |
|     |                            | - Yeasts & Moulds<br>- Yeasts<br>- Moulds                                                                               | ISO 21527-2:2008<br>LI-00.765-3 (Nov 2016)                                                                     | ≥10 cfu / g                              |
|     |                            | Staphylococcus aureus<br>Coagulase positive Staphylococci<br>- Enumeration (Quantitative)<br><br>-Qualitative Detection | ISO 6888 – 1 :1999 / IS 5887 (Part 8/Sec 1):2002 (RA 2012)<br><br>ISO 6888 – 3 :2003<br>LI-00.765-3 (Nov 2016) | ≥10 cfu /g<br><br>Present /Absent in X g |

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**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 34 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed                                                         | Test Method Specification against which tests are performed                    | Range of Testing / Limits of Detection              |
|-----|----------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------|
|     |                            | Enterobacteriaceae (Detection & Enumeration)                                    | ISO 21528-1:2017<br>LI-00.765-3 (Nov 2016)                                     | Present / Absent in X g<br>0.3 MPN/g to 11000 MPN/g |
|     |                            | Enterobacteriaceae, Enumeration (Quantitative)                                  | ISO 21528-2:2017<br>LI-00.765-3 (Nov 2016)                                     | ≥10 cfu /g                                          |
|     |                            | Listeria monocytogenes Detection (Qualitative)                                  | ISO 11290-1:2017<br>IS 14988 (Part 1) :2001(RA 2012)<br>LI-00.765-3 (Nov 2016) | Present /Absent in X g                              |
|     |                            | Escherichia coli, Escherichia coli presumptive (Detection & Enumeration)        | ISO 7251: 2005<br>LI-00.765-3 (Nov 2016)                                       | Present / Absent in X g                             |
|     |                            | Escherichia coli (Detection & Enumeration)                                      | IS:5887 (Part 1)-1976 (RA 2013)                                                | Present / Absent in X g<br>0.3 MPN/g to 11000 MPN/g |
|     |                            | B. cereus presumptive<br>B.cereus spores presumptive Enumeration (Quantitative) | ISO 7932 : 2004 / IS 5887 (Part 6) : 2012<br>LI-00.765-3 (Nov 2016)            | ≥10 cfu/g                                           |
|     |                            | Shigella spp.                                                                   | IS -5887-Part -7 (RA 2013)                                                     | Present / Absent in X g                             |
|     |                            | Listeria monocytogenes (and Listeria spp) - Qualitative Detection               | LI-00.755-1 (Aug 2013)<br>LI-00.765-3 (Nov 2016)                               | Present / Absent in X g                             |

**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 35 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed                                                                | Test Method Specification against which tests are performed                                                      | Range of Testing / Limits of Detection              |
|-----|----------------------------|----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| 19. | Sugar & sugar Products     | Salmonella                                                                             | LI-00.713-5<br>(July 2012)<br>(ISO 6579)<br>IS 5887 (Part 3) :1999<br>(RA 2013)<br><br>LI-00.765-3<br>(Nov 2016) | Qualitative (Present / Absent in X g)               |
|     |                            | Salmonella                                                                             | LI-00.746-2 (June 2017)<br>(ELISA)<br>LI-00.765-3<br>(Nov 2016)                                                  | Qualitative (Present / Absent in X g)               |
|     |                            | Coliform<br>- Qualitative Detection                                                    | ISO 4831:2006<br>IS 5401 Part 2:2012<br>LI-00.765-3 (Nov 2016)                                                   | Present / Absent in X g                             |
|     |                            | Aerobic Mesophilic microorganisms                                                      | ISO 4833-1:2013<br>IS 5402 :2012<br>LI-00.765-3<br>(Nov 2016)                                                    | ≥10 cfu /g                                          |
|     |                            | - Yeasts & Moulds<br>- Yeasts<br>- Moulds                                              | ISO 21527-2:2008<br>LI-00.765-3 (Nov 2016)                                                                       | ≥10 cfu / g                                         |
|     |                            | Staphylococcus aureus<br>Coagulase positive<br>Staphylococci<br>-Qualitative Detection | ISO 6888 – 3 :2003<br>LI-00.765-3 (Nov 2016)                                                                     | Present / Absent in X g                             |
|     |                            | Enterobacteriaceae<br>(Detection & Enumeration)                                        | ISO 21528-1:2017<br>LI-00.765-3 (Nov 2016)                                                                       | Present / Absent in X g<br>0.3 MPN/g to 11000 MPN/g |
|     |                            | Enterobacteriaceae,<br>Enumeration<br>(Quantitative)                                   | ISO 21528-2:2017<br>LI-00.765-3 (Nov 2016)                                                                       | ≥10 cfu /g                                          |

**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 36 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed                                                  | Test Method Specification against which tests are performed                                       | Range of Testing / Limits of Detection              |
|-----|----------------------------|--------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-----------------------------------------------------|
|     |                            | Listeria monocytogenes Detection (Qualitative)                           | ISO 11290-1:2017<br>IS 14988 (Part 1) :2001(RA 2012)<br>LI-00.765-3 (Nov 2016)                    | Present /Absent in X g                              |
|     |                            | Escherichia coli, Escherichia coli presumptive (Detection & Enumeration) | ISO 7251: 2005<br>LI-00.765-3 (Nov 2016)                                                          | Present / Absent in X g                             |
|     |                            | Escherichia coli (Detection & Enumeration)                               | IS:5887 (Part 1)-1976 (RA 2013)                                                                   | Present / Absent in X g<br>0.3 MPN/g to 11000 MPN/g |
|     |                            | Shigella spp.                                                            | IS -5887-Part -7 (RA 2013)                                                                        | Present / Absent in X g                             |
| 20. | Snacks and Instant Mixes   | Salmonella                                                               | LI-00.713-5 (July 2012) (ISO 6579)<br>IS 5887 (Part 3 ) :1999 (RA 2013)<br>LI-00.765-3 (Nov 2016) | Qualitative (Present / Absent in X g)               |
|     |                            | Salmonella                                                               | LI-00.746-2 (June 2017) (ELISA)<br>LI-00.765-3 (Nov 2016)                                         | Qualitative (Present / Absent in X g)               |
|     |                            | Coliform - Qualitative Detection                                         | ISO 4831:2006<br>IS 5401 Part 2:2012 (Nov 2016)                                                   | Present / Absent in X g                             |
|     |                            | Aerobic Mesophilic microorganisms                                        | ISO 4833-1:2013<br>IS 5402 :2012<br>LI-00.765-3 (Nov 2016)                                        | ≥10 cfu /g                                          |

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**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 37 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed                                                                                                       | Test Method Specification against which tests are performed                                                          | Range of Testing / Limits of Detection                                    |
|-----|----------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
|     |                            | - Yeasts & Moulds<br>- Yeasts<br>- Moulds                                                                                     | ISO 21527-2:2008<br>LI-00.765-3 (Nov 2016)                                                                           | ≥10 cfu / g                                                               |
|     |                            | Staphylococcus aureus<br>Coagulase positive<br>Staphylococci<br>- Enumeration<br>(Quantitative)<br><br>-Qualitative Detection | ISO 6888 – 1 :1999 / IS<br>5887 (Part 8/Sec 1):2002<br>(RA 2012)<br><br>ISO 6888 – 3 :2003<br>LI-00.765-3 (Nov 2016) | ≥10 cfu /g<br><br>Present /Absent in X g /<br>ml                          |
|     |                            | Enterobacteriaceae<br>(Detection &<br>Enumeration)<br><br>Enterobacteriaceae,<br>Enumeration<br>(Quantitative)                | ISO 21528-1:2017<br>LI-00.765-3 (Nov 2016)<br><br>ISO 21528-2:2017<br>LI-00.765-3 (Nov 2016)                         | Present / Absent in X g<br>0.3 MPN/gl to 11000<br>MPN/g<br><br>≥10 cfu /g |
|     |                            | Listeria<br>monocytogenes<br>Detection (Qualitative)                                                                          | ISO 11290-1:2017<br>IS 14988 (Part 1) :2001(RA<br>2012)<br>LI-00.765-3<br>(Nov 2016)                                 | Present /Absent in<br>X g                                                 |
|     |                            | Escherichia coli,<br>Escherichia coli<br>presumptive<br>(Detection &<br>Enumeration)                                          | ISO 7251: 2005<br>LI-00.765-3 (Nov 2016)                                                                             | Present / Absent in X g                                                   |
|     |                            | Escherichia coli<br>(Detection &<br>Enumeration)                                                                              | IS:5887 (Part 1)-1976<br>(RA 2013)                                                                                   | Present / Absent in X g<br>0.3 MPN/g to 11000<br>MPN/g                    |
|     |                            | B. cereus presumptive<br>B.cereus spores<br>presumptive<br>Enumeration<br>(Quantitative)                                      | ISO 7932 : 2004 / IS 5887<br>(Part 6) : 2012<br>LI-00.765-3 (Nov 2016)                                               | ≥10 cfu/g                                                                 |

**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 38 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed                                              | Test Method Specification against which tests are performed                                       | Range of Testing / Limits of Detection |
|-----|----------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------------|
|     |                            | Bacterial spores<br>- Flat sour spores 30 min 100°C/ 48 h 55°C       | LI-00.718-2 (Dec 2013)<br>LI-00.765-3 (Nov 2016)<br>SOP MCLMBO-WI-140 (Oct 2017)                  | ≥10 cfu / g<br>Present / Absent in X g |
|     |                            | -Yeast & Moulds<br>-Yeast<br>- mould                                 | IS 5403:1999 (RA 2013)<br>SOP MCLMBO-WI-140 (Oct 2017)                                            | ≥10 cfu / g<br>Present / Absent in X g |
|     |                            | Shigella spp.                                                        | IS -5887-Part -7 (RA 2013)                                                                        | Present / Absent in X g                |
|     |                            | Vibrio cholera                                                       | IS -5887-Part -5 (RA 2013)                                                                        | Present / Absent in X g                |
|     |                            | Listeria monocytogenes (and Listeria spp)<br>- Qualitative Detection | LI-00.755-1 (Aug 2013)<br>LI-00.765-3 (Nov 2016)                                                  | Present / Absent in X g                |
| 21. | Tea                        | Salmonella                                                           | LI-00.713-5 (July 2012) (ISO 6579)<br>IS 5887 (Part 3 ) :1999 (RA 2013)<br>LI-00.765-3 (Nov 2016) | Qualitative (Present / Absent in X g)  |
|     |                            | Salmonella                                                           | LI-00.746-2 (June 2017) (ELISA)<br>LI-00.765-3 (Nov 2016)                                         | Qualitative (Present / Absent in X g)  |
|     |                            | Coliform<br>- Qualitative Detection                                  | ISO 4831:2006<br>IS 5401 Part 2:2012<br>LI-00.765-3 (Nov 2016)                                    | Present / Absent in X g / ml           |
|     |                            | Aerobic Mesophilic microorganisms                                    | ISO 4833-1:2013<br>IS 5402 :2012<br>LI-00.765-3 (Nov 2016)                                        | ≥1 cfu ml<br>≥10 cfu /g                |

**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 39 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed                                                                                                       | Test Method Specification against which tests are performed                                                          | Range of Testing / Limits of Detection                                                      |
|-----|----------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
|     |                            | - Yeasts & Moulds<br>- Yeasts<br>- Moulds                                                                                     | ISO 21527-2:2008<br>LI-00.765-3<br>(Nov 2016)                                                                        | ≥1 cfu ml<br>≥10 cfu /g                                                                     |
|     |                            | Staphylococcus aureus<br>Coagulase positive<br>Staphylococci<br>- Enumeration<br>(Quantitative)<br><br>-Qualitative Detection | ISO 6888 – 1 :1999 / IS<br>5887 (Part 8/Sec 1):2002<br>(RA 2012)<br><br>ISO 6888 – 3 :2003<br>LI-00.765-3 (Nov 2016) | ≥1 cfu / ml<br>≥10 cfu /g<br><br>Present /Absent in X g / ml                                |
|     |                            | Enterobacteriaceae<br>(Detection & Enumeration)<br><br>Enterobacteriaceae,<br>Enumeration<br>(Quantitative)                   | ISO 21528-1:2017<br>LI-00.765-3 (Nov 2016)<br><br>ISO 21528-2:2017<br>LI-00.765-3 (Nov 2016)                         | Present / Absent in X g / ml<br>0.3 MPN/g/ml to 11000 MPN/g/ml<br>≥1 cfu / ml<br>≥10 cfu /g |
|     |                            | Listeria monocytogenes<br>Detection (Qualitative)                                                                             | ISO 11290-1:2017<br>IS 14988 (Part 1) :2001<br>(RA 2012)<br>LI-00.765-3<br>(Nov 2016)                                | Present /Absent in X g / ml                                                                 |
|     |                            | Escherichia coli,<br>Escherichia coli presumptive<br>(Detection & Enumeration)                                                | ISO 7251: 2005<br>LI-00.765-3<br>(Nov 2016)                                                                          | Present / Absent in X g / ml                                                                |
|     |                            | B. cereus presumptive<br>B.cereus spores presumptive<br>Enumeration<br>(Quantitative)                                         | ISO 7932 : 2004 / IS 5887<br>(Part 6) : 2012<br>LI-00.765-3 (Nov 2016)                                               | ≥1 cfu / ml<br>≥10 cfu /g                                                                   |
|     |                            | Shigella spp.                                                                                                                 | IS -5887-Part -7<br>(RA 2013)                                                                                        | Present / Absent in X g / ml                                                                |

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**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 40 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test                | Specific Test Performed                                                                                             | Test Method Specification against which tests are performed                                                | Range of Testing / Limits of Detection |
|-----|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|----------------------------------------|
|     |                                           | Listeria monocytogenes (and Listeria spp)<br>- Qualitative Detection                                                | LI-00.755-1 (Aug 2013)<br>LI-00.765-3 (Nov 2016)                                                           | Present / Absent in X g / ml           |
| 22. | <b>Vegetable &amp; Vegetable Products</b> | Salmonella                                                                                                          | LI-00.713-5 (July 2012)<br>(ISO 6579)<br>IS 5887 (Part 3 ) :1999 (RA 2013)<br>LI-00.765-3 (Nov 2016)       | Qualitative (Present / Absent in X g)  |
|     |                                           | Salmonella                                                                                                          | LI-00.746-2 (June 2017)<br>(ELISA)<br>LI-00.765-3 (Nov 2016)                                               | Qualitative (Present / Absent in X g)  |
|     |                                           | Coliform Enumeration (Quantitative)                                                                                 | ISO 4832:2006<br>IS 5401 Part 1:2012 (RA 2012)<br>LI-00.765-3 (Nov 2016)                                   | ≥10 cfu /g                             |
|     |                                           | Coliform<br>- Qualitative Detection                                                                                 | ISO 4831:2006<br>IS 5401 Part 2:2012<br>LI-00.765-3 (Nov 2016)                                             | Present / Absent in X g                |
|     |                                           | Aerobic Mesophilic microorganisms                                                                                   | ISO 4833-1:2013<br>IS 5402 :2012<br>LI-00.765-3 (Nov 2016)                                                 | ≥10 cfu /g                             |
|     |                                           | - Yeasts & Moulds<br>- Yeasts<br>- Moulds                                                                           | ISO 21527-2:2008<br>LI-00.765-3 (Nov 2016)                                                                 | ≥10 cfu /g                             |
|     |                                           | Staphylococcus aureus<br>Coagulase positive Staphylococci<br>- Enumeration (Quantitative)<br>-Qualitative Detection | ISO 6888 – 1 :1999 / IS 5887 (Part 8/Sec 1):2002 (RA 2012)<br>ISO 6888 – 3 :2003<br>LI-00.765-3 (Nov 2016) | ≥10 cfu /g<br>Present /Absent in X g   |



**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 41 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed                                                  | Test Method Specification against which tests are performed                      | Range of Testing / Limits of Detection              |
|-----|----------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------------|-----------------------------------------------------|
|     |                            | Enterobacteriaceae (Detection & Enumeration)                             | ISO 21528-1:2017<br>LI-00.765-3 (Nov 2016)                                       | Present / Absent in X g<br>0.3 MPN/g to 11000 MPN/g |
|     |                            | Enterobacteriaceae, Enumeration (Quantitative)                           | ISO 21528-2:2017<br>LI-00.765-3 (Nov 2016)                                       | ≥10 cfu /g                                          |
|     |                            | Listeria monocytogenes Detection (Qualitative)                           | ISO 11290-1:2017<br>IS 14988 (Part 1) :2001 (RA 2012)<br>LI-00.765-3 (Nov 2016)  | Present / Absent in X g                             |
|     |                            | Bacterial spores<br>- Flat sour spores 30 min 100°C/ 48 h 55°C           | LI-00.718-2 (Dec 2013)<br>LI-00.765-3 (Nov 2016)<br>SOP MCLMBO-WI-140 (Oct 2017) | ≥10 cfu / g<br>Present / Absent in X g              |
|     |                            | Escherichia coli, Escherichia coli presumptive (Detection & Enumeration) | ISO 7251: 2005<br>LI-00.765-3 (Nov 2016)                                         | Present / Absent in X g                             |
|     |                            | Escherichia coli (Detection & Enumeration)                               | IS:5887 (Part 1)-1976 (RA 2013)                                                  | Present / Absent in X g<br>0.3 MPN/g to 11000 MPN/g |
|     |                            | Lactic acid bacteria                                                     | LI-00.731-2 (Jan 2011)<br>(ISO 15214:1998)<br>LI-00.765-3 (Nov 2016)             | ≥10 cfu/g                                           |
|     |                            | Clostridium perfringens bacteria and spores                              | ISO 7937 :2004<br>LI-00.765-3 (Nov 2016)                                         | ≥10 cfu/g                                           |

**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 42 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl.        | Product / Material of Test | Specific Test Performed                                                            | Test Method Specification against which tests are performed         | Range of Testing / Limits of Detection     |
|------------|----------------------------|------------------------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------|
|            |                            | B. cereus presumptive<br>B.cereus spores presumptive<br>Enumeration (Quantitative) | ISO 7932 : 2004 / IS 5887 (Part 6) : 2012<br>LI-00.765-3 (Nov 2016) | ≥10 cfu/g                                  |
|            |                            | Shigella spp.                                                                      | IS -5887-Part -7 (RA 2013)                                          | Present / Absent in X g                    |
|            |                            | Vibrio cholera                                                                     | IS -5887-Part -5 (RA 2013)                                          | Present / Absent in X g                    |
|            |                            | Listeria monocytogenes (and Listeria spp)<br>- Qualitative Detection               | LI-00.755-1 (Aug 2013)<br>LI-00.765-3 (Nov 2016)                    | Present / Absent in X g                    |
|            |                            | -Yeast & Moulds<br>-Yeast<br>- mould                                               | IS 5403:1999 (RA 2013)<br>SOP MCLMBO-WI-140 (Oct 2017)              | ≥10 cfu / g<br>Present / Absent in X g     |
| <b>II.</b> | <b>WATER</b>               |                                                                                    |                                                                     |                                            |
| <b>1.</b>  | <b>Drinking Water</b>      | Coliforms,<br>Escherichia coli<br>- Qualitative Detection<br><br>- Enumeration     | ISO 9308-1:2014                                                     | Present /Absent in X ml<br><br>≥1 cfu / ml |
|            |                            | Enumeration of culturable Microorganisms (37°C & 22°C)                             | ISO 6222:1999                                                       | ≥1 cfu /ml                                 |
|            |                            | Legionella spp.                                                                    | ISO-11731 part-2 (2004)                                             | ≥1 cfu/ X ml<br>Present / Absent in X /ml  |
|            |                            | Legionella spp.                                                                    | ISO-11731 (ISO 11731 :1998)                                         | ≥1 cfu/ X ml                               |
|            |                            | Salmonella                                                                         | IS 15187:2016<br>ISO 19250:2010                                     | Present / Absent / ml                      |

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**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
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**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 43 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed                                                        | Test Method Specification against which tests are performed | Range of Testing / Limits of Detection          |
|-----|----------------------------|--------------------------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------|
| 2.  | Water for Swimming Pool    | Coliforms,<br>Escherichia coli<br>- Qualitative Detection<br>- Enumeration     | ISO 9308-1:2014                                             | Present /Absent in<br>X ml<br><br>≥1 cfu / X ml |
|     |                            | Enumeration of culturable Microorganisms (37°C & 22°C)                         | ISO 6222:1999                                               | ≥1 cfu /ml                                      |
|     |                            | Legionella spp.                                                                | ISO-11731 part-2 (2004)                                     | ≥1 cfu/ X ml<br>Present / Absent in X /ml       |
|     |                            | Legionella spp.                                                                | ISO-11731 (ISO 11731 :1998)                                 | ≥1 cfu/ X ml                                    |
|     |                            | Salmonella                                                                     | IS 15187:2016<br>ISO 19250:2010                             | Present / Absent in X ml                        |
| 3.  | Ground Water/Surface Water | Coliforms,<br>Escherichia coli<br>- Qualitative Detection<br><br>- Enumeration | ISO 9308-1:2014                                             | Present /Absent in<br>X ml<br><br>≥1 cfu / X ml |
|     |                            | Enumeration of culturable Microorganisms (37°C & 22°C)                         | ISO 6222:1999                                               | ≥1 cfu /ml                                      |
|     |                            | Legionella spp.                                                                | ISO-11731 part-2 (2004)                                     | ≥1 cfu/ X ml<br>Present / Absent in X ml        |
|     |                            | Legionella spp.                                                                | ISO-11731 (ISO 11731 :1998)                                 | >1 cfu/ X ml                                    |
|     |                            | Salmonella                                                                     | IS 15187:2016<br>ISO 19250:2010                             | Present / Absent in X ml                        |
| 4.  | Distilled /Demineralized   | Coliforms,<br>Escherichia coli<br>- Qualitative Detection<br>- Enumeration     | ISO 9308-1:2014                                             | Present /Absent in<br>X ml<br><br>≥1 cfu / X ml |

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**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 44 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl.       | Product / Material of Test               | Specific Test Performed                                                    | Test Method Specification against which tests are performed | Range of Testing / Limits of Detection   |
|-----------|------------------------------------------|----------------------------------------------------------------------------|-------------------------------------------------------------|------------------------------------------|
|           |                                          | Enumeration of culturable Microorganisms (37°C & 22°C)                     | ISO 6222:1999                                               | ≥1 cfu /ml                               |
|           |                                          | Legionella spp.                                                            | ISO-11731 part-2 (2004)                                     | ≥1 cfu/ X ml<br>Present / Absent in X ml |
|           |                                          | Legionella spp.                                                            | ISO-11731 (ISO 11731 :1998)                                 | >1 cfu/ X ml                             |
|           |                                          | Salmonella                                                                 | IS 15187:2016<br>ISO 19250:2010                             | Present / Absent in X ml                 |
| <b>5.</b> | <b>Water for Processed Food Industry</b> | Coliforms,<br>Escherichia coli<br>- Qualitative Detection<br>- Enumeration | ISO 9308-1:2014                                             | Present /Absent in X ml<br>≥1 cfu / X ml |
|           |                                          | Microorganisms culturable Enumeration (37°C & 22°C)                        | ISO 6222:1999                                               | ≥1 cfu /ml                               |
|           |                                          | Legionella spp.                                                            | ISO-11731 part-2 (2004)                                     | ≥1 cfu/ X ml<br>Present / Absent in X ml |
|           |                                          | Legionella spp.                                                            | ISO-11731 (ISO 11731 :1998)                                 | >1 cfu/ X ml                             |
|           |                                          | Salmonella                                                                 | IS 15187:2016<br>ISO 19250:2010                             | Present / Absent in X ml                 |
| <b>6.</b> | <b>Water for industrial Purpose</b>      | Coliforms,<br>Escherichia coli<br>- Qualitative Detection<br>- Enumeration | ISO 9308-1:2014                                             | Present /Absent in X ml<br>≥1 cfu / X ml |
|           |                                          | Enumeration of culturable Microorganisms (37°C & 22°C)                     | ISO 6222:1999                                               | ≥1 cfu /ml                               |
|           |                                          | Legionella spp.                                                            | ISO-11731 part-2 (2004)                                     | ≥1 cfu/ X ml<br>Present / Absent in X ml |

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**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 45 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl.  | Product / Material of Test                                                             | Specific Test Performed                                                    | Test Method Specification against which tests are performed | Range of Testing / Limits of Detection   |
|------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------|-------------------------------------------------------------|------------------------------------------|
|      |                                                                                        | Legionella spp.                                                            | ISO-11731 (ISO 11731 :1998)                                 | >1 cfu/ X ml                             |
|      |                                                                                        | Salmonella                                                                 | IS 15187:2016<br>ISO 19250:2010                             | Present / Absent in X ml                 |
| 7.   | CIP (Rinses)                                                                           | Coliforms,<br>Escherichia coli<br>- Qualitative Detection<br>- Enumeration | ISO 9308-1:2014                                             | Present /Absent in X ml<br>≥1 cfu / X ml |
|      |                                                                                        | Enumeration of culturable Microorganisms (37°C & 22°C)                     | ISO 6222:1999                                               | ≥1 cfu /ml                               |
|      |                                                                                        | Legionella spp.                                                            | ISO-11731 part-2 (2004)                                     | ≥1 cfu/ X ml<br>Present / Absent in X ml |
|      |                                                                                        | Legionella spp.                                                            | ISO-11731 (ISO 11731 :1998)                                 | >1 cfu/ X ml                             |
|      |                                                                                        | Salmonella                                                                 | IS 15187:2016<br>ISO 19250:2010                             | Present / Absent in X ml                 |
| III. | <b>BIOLOGICAL TESTS ON OTHER MISCELLANEOUS TEST ITEMS</b>                              |                                                                            |                                                             |                                          |
| 1.   | <b>Packaging Materials (Bottles, tins caps, corks &amp; flat packing material etc)</b> | Aerobic mesophilic microorganism                                           | LI-00.728 (Feb 2011)                                        | ≥1 cfu / packaging unit                  |
|      |                                                                                        | Yeast and moulds                                                           | LI-00.728 (Feb 2011)                                        | ≥1 cfu / packaging unit                  |
| IV.  | <b>ENVIRONMENT AND POLLUTION</b>                                                       |                                                                            |                                                             |                                          |
| 1.   | <b>Air (only analysis)</b>                                                             | Air Microorganisms (Aerobic mesophilic microorganisms – air exposure)      | ISO 4833-1:2013<br>IS 5402 :2012                            | ≥1 cfu/ plate                            |
|      |                                                                                        | - Yeasts & Moulds<br>- Yeasts<br>- Moulds                                  | ISO 21527-2:2008                                            | ≥1 cfu/ plate                            |
|      |                                                                                        | Enterobacteriaceae                                                         | ISO 21528-2:2017                                            | ≥1 cfu/ plate                            |

**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
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**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 46 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test                                                     | Specific Test Performed                                                                                                          | Test Method Specification against which tests are performed                                  | Range of Testing / Limits of Detection   |
|-----|--------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|------------------------------------------|
| 2.  | <b>Bio Burden Estimation of Classified and Non-Classified Area (Sweepings)</b> | Salmonella                                                                                                                       | LI-00.713-5 (July 2012) (ISO 6579)<br>LI-00.765-3 (Nov 2016)                                 | Qualitative (Present / Absent in X g)    |
|     |                                                                                | Salmonella                                                                                                                       | LI-00.746-2 (JUNE 2017) (ELISA)<br>LI-00.765-3 (Nov 2016)                                    | Qualitative (Present / Absent in X g)    |
|     |                                                                                | Coliform - Qualitative Detection                                                                                                 | ISO 4831:2006<br>LI-00.765-3 (Nov 2016)                                                      | Present / Absent in X g                  |
|     |                                                                                | Coliform Enumeration (Quantitative)                                                                                              | ISO 4832:2006<br>LI-00.765-3 (Nov 2016)                                                      | ≥10 cfu/g                                |
|     |                                                                                | Aerobic Mesophilic microorganisms                                                                                                | ISO 4833-1:2013<br>LI-00.765-3 (Nov 2016)                                                    | ≥10 cfu/g                                |
|     |                                                                                | - Yeasts & Moulds<br>- Yeasts<br>- Moulds                                                                                        | ISO 21527-2:2008<br>LI-00.765-3 (Nov 2016)                                                   | ≥10 cfu/g                                |
|     |                                                                                | Staphylococcus aureus<br>Coagulase positive<br>Staphylococci<br><br>- Qualitative Detection                                      | ISO 6888 – 3 :2003<br>LI-00.765-3 (Nov 2016)                                                 | Present / Absent in X g                  |
|     |                                                                                | Enterobacteriaceae<br>Detection &<br>Enumeration<br><br>Enterobacteriaceae,<br>Enterobacteriaceae,<br>Presumptive<br>Enumeration | ISO 21528-1:2017<br>LI-00.765-3 (Nov 2016)<br><br>ISO 21528-2:2017<br>LI-00.765-3 (Nov 2016) | Present / Absent in X g<br><br>≥10 cfu/g |

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**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 47 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test                                                 | Specific Test Performed                                                              | Test Method Specification against which tests are performed           | Range of Testing / Limits of Detection |
|-----|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------------|
|     |                                                                            | (Quantitative)                                                                       |                                                                       |                                        |
|     |                                                                            | Escherichia coli, Escherichia coli presumptive (Detection & Enumeration)             | ISO 7251: 2005<br>LI-00.765-3<br>(Nov 2016)                           | Present / Absent in X g                |
| 3.  | <b>Bio Burden Estimation of Classified and Non-Classified Area (Swabs)</b> | Salmonella                                                                           | LI-00.713-5<br>(July 2012)<br>(ISO 6579)<br>LI-00.765-3<br>(Nov 2016) | Present / Absent per swab              |
|     |                                                                            | Salmonella                                                                           | LI-00.746-2<br>(JUNE 2017)<br>(ELISA)<br>LI-00.765-3<br>(Nov 2016)    | Present / Absent per swab              |
|     |                                                                            | Coliform - Qualitative Detection                                                     | ISO 4831:2006<br>LI-00.765-3<br>(Nov 2016)                            | Present / Absent per swab              |
|     |                                                                            | Coliform Enumeration (Quantitative)                                                  | ISO 4832:2006<br>LI-00.765-3<br>(Nov 2016)                            | ≥10 cfu per swab                       |
|     |                                                                            | Aerobic Mesophilic microorganisms                                                    | ISO 4833-1:2013<br>LI-00.765-3<br>(Nov 2016)                          | ≥10 cfu per swab                       |
|     |                                                                            | - Yeasts & Moulds<br>- Yeasts<br>- Moulds                                            | ISO 21527-2:2008<br>LI-00.765-3<br>(Nov 2016)                         | ≥10 cfu per swab                       |
|     |                                                                            | Staphylococcus aureus<br>Coagulase positive Staphylococci<br>- Qualitative Detection | ISO 6888 – 3 :2003<br>LI-00.765-3<br>(Nov 2016)                       | Present / Absent per swab              |
|     |                                                                            | Enterobacteriaceae<br>Detection &                                                    | ISO 21528-1:2017<br>LI-00.765-3                                       | Present / Absent per swab              |

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**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 48 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed                                                        | Test Method Specification against which tests are performed | Range of Testing / Limits of Detection |
|-----|----------------------------|--------------------------------------------------------------------------------|-------------------------------------------------------------|----------------------------------------|
|     |                            | Enumeration                                                                    | (Nov 2016)                                                  |                                        |
|     |                            | Enterobacteriaceae, Enterobacteriaceae, Presumptive Enumeration (Quantitative) | ISO 21528-2:2017 LI-00.765-3 (Nov 2016)                     | ≥10 cfu per swab                       |
|     |                            | Escherichia coli, Escherichia coli presumptive (Detection & Enumeration)       | ISO 7251: 2005 LI-00.765-3 (Nov 2016)                       | Present / Absent per swab              |
|     |                            | Escherichia coli (Detection & Enumeration)                                     | IS:5887 (Part 1)-1976 (RA 2013) LI-00.765-3 (Nov 2016)      | Present / Absent per swab              |

**X = Reporting range of samples for following parametrs**

| Parameter                                 | Method number          | Range of Detection          |
|-------------------------------------------|------------------------|-----------------------------|
| Salmonella                                | LI-00.713-5            | 0.1 - 375g                  |
|                                           | LI-00.746-2            | 0.1 - 375g                  |
|                                           | IS 15187:2016          | Present / Absent in 1000 ml |
|                                           | ISO 19250:2010         |                             |
| Listeria monocytogenes                    | ISO 11290-1:2017       | 0.1 - 25 gm                 |
| Listeria monocytogenes (and Listeria spp) | LI-00.755-1 (Aug 2013) | 0.1 -25 gm                  |
| Escherichia coli                          | ISO 7251: 2005         | 0.1 - 25 gm                 |

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**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 49 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed | Test Method Specification against which tests are performed | Range of Testing / Limits of Detection |
|-----|----------------------------|-------------------------|-------------------------------------------------------------|----------------------------------------|
|     | Legionella spp.            | ISO-11731 part-2 (2004) | Present / Absent in X /1000 ml                              |                                        |

#### CHEMICAL TESTING

| I. | RESIDUES IN FOOD        |                                                                                                                                                                                                                                                                                                                                    |                                                                                                             |                                                                                                                                                                                                                                                                                                                    |
|----|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | Milk and Dairy Products | Aflatoxin B1,<br>Aflatoxin G1<br>Aflatoxin B2,<br>Aflatoxin G2<br>Aflatoxin M1<br>Total Aflatoxin (B +G)                                                                                                                                                                                                                           | LI-SGRL-99.033<br>(AOAC 991.31)<br>Issue date:04.05.2017<br>Version: 06<br>immunoaffinity clean-up and UPLC | B1- 0.1t100 µg/kg<br>G1- 0.10-100 µg/kg,<br>B2-0.04-100 µg/kg<br>G2 –0.04-100 µg/kg,<br>M1 – 0.2-50 µg/kg<br>B+G 0.4-1000 µg/kg                                                                                                                                                                                    |
|    |                         | 3- and 15-acetyldeoxynivalenol<br>Aflatoxin B1<br>Aflatoxin B2<br>Aflatoxin G1<br>Aflatoxin G2<br>Aflatoxin M1<br>Aflatoxins B+G (Total)<br>Deoxynivalenol (DON or<br>FUMONISIN B1<br>FUMONISIN B2<br>FUMONISINS (Total B1+B2)<br>HT-2 TOXIN<br>NIVALENOL<br>OCHRATOXIN A<br>T-2 & HT-2 Toxins (Total)<br>T-2 TOXIN<br>Zearalenone | LI-00.185 (LC-MSMS)<br>Issue Date: July 2013                                                                | 100-1000 µg/kg<br><br>0.025-1000 µg/kg<br>0.025-1000 µg/kg<br>0.025-100 µg/kg<br>0.025-100 µg/kg<br>0.025-100 µg/kg<br>0.10-1000 µg/kg<br>50-1000 µg/kg<br>50-1000 µg/kg<br>50-1000 µg/kg<br>100-2000 µg/kg<br>25-2000 µg/kg<br>100-1000 µg/kg<br>0.5-100 µg/kg<br>50-1000 µg/kg<br>25-1000 µg/kg<br>20-1000 µg/kg |

**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
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**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 50 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed                                                                                                                            | Test Method Specification against which tests are performed                                                                         | Range of Testing / Limits of Detection                                                                                                                                                                                                 |
|-----|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |                            |                                                                                                                                                    |                                                                                                                                     |                                                                                                                                                                                                                                        |
|     |                            | Arsenic<br>Lead<br>Cadmium<br>Mercury<br>Aluminium<br>Molybdenum<br>Selenium<br>Tin<br>Chromium<br>Cobalt<br>Antimony<br>Boron<br>Silver<br>Nickel | LI-00.848-2<br>Trace Metals by ICP MS<br>( EN 13805:2013, EN 15763:2009 & AOAC2011.19)<br><br>Issue date : April 2013<br>Version-02 | 0.010-1 mg/kg<br>0.009-2 mg/kg<br>0.009-1 mg/kg<br>0.002-0.1 mg/kg<br>0.2-60 mg/kg<br>0.02 -4 mg/kg<br>0.02 -5 mg/kg<br>0.02-10 mg/kg<br>0.007-5 mg/kg<br>0.007-1 mg/kg<br>0.05-2 mg/kg<br>0.4- 40mg/kg<br>0.05-1 mg/kg<br>0.1-5 mg/kg |
|     |                            | Melamine by LC-MSMS                                                                                                                                | LI-00.176-4<br>Melamine and Cyanuric Acid by LC-MS/MS<br>Issue date: April 2009<br>Version 04                                       | 0.050-10mg/kg                                                                                                                                                                                                                          |
|     |                            | Cyanuric Acid by LC-MSMS                                                                                                                           | LI-00.176-4<br>Melamine and Cyanuric Acid by LC-MS/MS<br>Issue date: April 2009<br>Version 04                                       | 0.100 -10mg/kg                                                                                                                                                                                                                         |
|     |                            | Nitrite                                                                                                                                            | LI-SGRL-99.026<br>Nitrite by Spectrophotometer<br>Issue date: 22.05.2017<br>Version : 06                                            | Liquid Milk 0.1-20 mg/kg<br>Powder 1.2- 50 mg/kg                                                                                                                                                                                       |
|     |                            | Nitrate                                                                                                                                            | LI-SGRL-99.026                                                                                                                      | Liquid Milk 0.1 - 50 mg/kg                                                                                                                                                                                                             |

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**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 51 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed | Test Method Specification against which tests are performed                                                          | Range of Testing / Limits of Detection               |
|-----|----------------------------|-------------------------|----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
|     |                            |                         | Nitrate by HPLC<br>Issue date: 22.05.2017<br>Version : 06                                                            | Powder 1.0 - 200 mg/kg                               |
|     |                            | Cyanide                 | LI-00.576-2 by Spectrophotometer<br>Colorimetric Determination of Cyanides<br>Issue date:December 2010<br>Version -2 | 0.5-10 mg/kg                                         |
|     |                            | Hypericine              | LI-SOP-MCLCHC-55 by HPLC<br>(J. AOAC 2002)<br>Issue date:15.09.2015<br>Version: 03                                   | 0.38-1.5 mg/kg                                       |
|     |                            | Safole                  | LI-SOP-MCLCHC-56 by HPLC(AOAC 969.13)<br>Issue date:01.10.2008<br>Version: 03                                        | 3-15 mg/kg                                           |
|     |                            | Isosafrole              | LI-SOP-MCLCHC-56 by HPLC(AOAC 969.13)<br>Issue date:01.10.2008<br>Version: 03                                        | 3-15 mg/kg                                           |
|     |                            | Chloramphenicol         | LI-00.145-1<br>Chloramphenicol by LC-MS/MS in Milk Products<br>Issue date: March2013<br>Version 01                   | 0.04- 3 µg/kg                                        |
|     |                            | Aflatoxin M1            | LI-00.114-3 by HPLC (ISO14501:2007) Aflatoxin M1 by HPLC<br>Issue Date: September 2010 Version 3                     | Liquid milk 0.002-2.0 µg/kg<br>Powder 0.024-10 µg/kg |
|     |                            | Chloramphenicol         | LI-00.170-1<br>Chloramphenicol in Food by ELISA Kit<br>Issue Date: July 2013                                         | 0.1-2 mcg/kg                                         |

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**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 52 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test         | Specific Test Performed                                                                                                                            | Test Method Specification against which tests are performed                                                         | Range of Testing / Limits of Detection                                                                                                                                                                                                                          |
|-----|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |                                    |                                                                                                                                                    | Version 01                                                                                                          |                                                                                                                                                                                                                                                                 |
|     |                                    | 2,4-D                                                                                                                                              | SOP-MCLCHC-WI-128<br>Analysis of 2, 4-D in Food product by LC-MS/MS<br>Issued date: 31.08.2015<br>Version:03        | 0.010 – 0.100mg/kg                                                                                                                                                                                                                                              |
|     |                                    | Arsenic<br>Lead<br>Cadmium<br>Mercury<br>Aluminium<br>Molybdenum<br>Selenium<br>Tin<br>Chromium<br>Cobalt<br>Antimony<br>Boron<br>Silver<br>Nickel | LI-00.848-2<br>ICP MS<br>( EN 13805:2013, EN 15763:2009 & AOAC2011.19)<br><br>Issue date : April 2013<br>Version-02 | 0.002-0.009 mg/kg<br>0.002-0.010 mg/kg<br>0.002-0.010 mg/kg<br>0.001-0.010 mg/kg<br>0.06 - 2 mg/kg<br>0.002-0.010 mg/kg<br>0.002-2 mg/kg<br>0.006-4 mg/kg<br>0.002-20 mg/kg<br>0.002-20 mg/kg<br>0.05-10.0/kg<br>0.2-200.0mg/kg<br>0.05-10 mg/kg<br>0.1-50mg/kg |
|     |                                    | 2,4-D                                                                                                                                              | SOP-MCLCHC-WI-128<br>Analysis of 2, 4-D in Food product by LC-MS/MS<br>Issued date: 31.08.2015<br>Version:03        | 0.010 – 0.100mg/kg                                                                                                                                                                                                                                              |
| 2.  | <b>Cereals and Cereal Products</b> | Aflatoxin B1<br><br>Aflatoxin G1<br><br>Aflatoxin B2<br>Aflatoxin G2<br>Aflatoxin M1<br>Total Aflatoxin (B +G)                                     | LI-SGRL-99.033 ( AOAC 991.31)<br>Issue date:04.05.2017<br>Version: 06<br>immunoaffinity clean-up and UPLC           | B1- 0.1-1000 µg/kg<br>G1- 0.10-100 µg/kg,<br>B2-0.04-100 µg/kg<br>G2 –0.04-100 µg/kg, M1 – 0.2-50 µg/kg<br>B+G- 0.1-1000 µg/kg                                                                                                                                  |
|     |                                    | Patulin by LCMSMS                                                                                                                                  | LI-00.219 Patulin by LC-                                                                                            | 5.0 -100 µg/Kg                                                                                                                                                                                                                                                  |

**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 53 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed                                                                                                                                                                                                                                                                                                            | Test Method Specification against which tests are performed                                                                                     | Range of Testing / Limits of Detection                                                                                                                                                                                                                                                                      |
|-----|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |                            |                                                                                                                                                                                                                                                                                                                                    | MS/MS<br>Issue Date: February 2011                                                                                                              |                                                                                                                                                                                                                                                                                                             |
|     |                            | 3- and 15-acetyldeoxynivalenol<br>Aflatoxin B1<br>Aflatoxin B2<br>Aflatoxin G1<br>Aflatoxin G2<br>Aflatoxin M1<br>Aflatoxins B+G (Total)<br>Deoxynivalenol (DON or<br>FUMONISIN B1<br>FUMONISIN B2<br>FUMONISINS (Total B1+B2)<br>HT-2 TOXIN<br>NIVALENOL<br>OCHRATOXIN A<br>T-2 & HT-2 Toxins (Total)<br>T-2 TOXIN<br>Zearalenone | LI-00.185 (LC-MSMS) LC-MS/MS<br>Issue Date: July 2013                                                                                           | 100-1000 µg/kg<br>0.025-1000 µg/kg<br>0.025-1000 µg/kg<br>0.025-100 µg/kg<br>0.025-100 µg/kg<br>0.025-100 µg/kg<br>0.10-1000 µg/kg<br>50-1000 µg/kg<br>50-1000 µg/kg<br>50-1000 µg/kg<br>100-2000 µg/kg<br>5-1000 µg/kg<br>100-1000 µg/kg<br>0.5-100 µg/kg<br>50-1000 µg/kg<br>5-1000 µg/kg<br>4-1000 µg/kg |
|     |                            | Hypericine                                                                                                                                                                                                                                                                                                                         | LI-SOP-MCLCHC-55 by HPLC<br>(J. AOAC 2002)<br>Issue date:15.09.2015<br>Version: 03                                                              | 0.38-1.5 mg/kg                                                                                                                                                                                                                                                                                              |
|     |                            | Safrole                                                                                                                                                                                                                                                                                                                            | LI-SOP-MCLCHC-56 by HPLC(AOAC 969.13)<br>Issue date:15.09.2015<br>Version: 03<br>LI-SOP-MCLCHC-56 by HPLC(AOAC 969.13)<br>Issue date:15.09.2015 | 3 -15mg/kg                                                                                                                                                                                                                                                                                                  |

**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 54 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed | Test Method Specification against which tests are performed                                                         | Range of Testing / Limits of Detection |
|-----|----------------------------|-------------------------|---------------------------------------------------------------------------------------------------------------------|----------------------------------------|
|     |                            |                         | Version: 03                                                                                                         |                                        |
|     |                            | Isosafrole              | LI-SOP-MCLCHC-56 by HPLC(AOAC 969.13)<br>Issue date:15.09.2015<br>Version: 03                                       | 3-15 mg/kg                             |
|     |                            | Cyanide                 | LI-00.576-2 by Spectrophotometer<br>Colorimetric Determination of Cyanides Version-02<br>Issue date : December 2010 | 0.5-10 mg/kg                           |
|     |                            | Nitrite                 | LI-SGRL-99.026<br>Nitrite by Spectrophotometer<br>Issue date: 22.05.2017<br>Version : 06                            | 1.0-3 mg/kg                            |
|     |                            | Nitrate                 | LI-SGRL-99.026<br>Nitrate by HPLC<br>Issue date: 22.05.2017<br>Version : 06                                         | 1.0-200 mg/kg                          |
|     |                            | Melamine                | LI-00.176-4<br>LC-MS/MS<br>Issue date: April 2009<br>Version 04                                                     | 0.05 – 10 mg/kg                        |
|     |                            | Cyanuric Acid           | LI-00.176-4<br>LC-MS/MS<br>Issue date: April 2009<br>Version 04                                                     | 0.10- 10 mg/kg                         |
|     |                            | 2,4-D                   | SOP-MCLCHC-WI-128<br>LC-MS/MS<br>Issued date: 31.08.2015<br>Version:03                                              | 0.003 – 0.030 mg/kg                    |
|     |                            | Bromide                 | LI-00.122-1 by GC-ECD<br>Gas Chromatography                                                                         | 5-100 mg/kg                            |

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Program Director

**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 55 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed                                                                                                                            | Test Method Specification against which tests are performed                                                               | Range of Testing / Limits of Detection                                                                                                                                                                                                                 |
|-----|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |                            |                                                                                                                                                    | Version 01, Issue Date-<br>March 2008                                                                                     |                                                                                                                                                                                                                                                        |
|     |                            | Ethylene Oxide (Total)                                                                                                                             | LI-00.032 by GC-ECD<br>Issue date : January 1990                                                                          | 0.1-2 mg/kg                                                                                                                                                                                                                                            |
|     |                            | Arsenic<br>Lead<br>Cadmium<br>Mercury<br>Aluminium<br>Molybdenum<br>Selenium<br>Tin<br>Chromium<br>Cobalt<br>Antimony<br>Boron<br>Silver<br>Nickel | LI-00.848-2<br>ICP MS<br>( EN 13805:2013, EN<br>15763:2009 &<br>AOAC2011.19)<br><br>Issue date : April 2013<br>Version-02 | 0.010-2 mg/kg<br>0.010-2 mg/kg<br>0.010-2 mg/kg<br>0.002-0.1 mg/kg<br>0.2-60 mg/kg<br>0.02 -2 mg/kg<br>0.02 -4 mg/kg<br>0.02-10 mg/kg<br>0.007-5 mg/kg<br>0.007-1 mg/kg<br>0.05-2 mg/kg<br>0.4- 40mg/kg<br>0.05-1 mg/kg<br>0.1-5 mg/kg                 |
| 3.  | Edible Oils and Fats       | Arsenic<br>Lead<br>Cadmium<br>Mercury<br>Aluminium<br>Molybdenum<br>Selenium<br>Tin<br>Chromium<br>Cobalt<br>Antimony<br>Boron<br>Silver<br>Nickel | LI-00.848-2<br>ICP MS<br>( EN 13805:2013, EN<br>15763:2009 &<br>AOAC2011.19)<br><br>Issue date : April 2013<br>Version-02 | 0.007- 0.2 mg/kg<br>0.010- 1 mg/kg<br>0.007- 0.5 mg/kg<br>0.002- 0.010 mg/kg<br>0.2-10 mg/kg<br>0.007-2 mg/kg<br>0.007-4 mg/kg<br>0.02-20 mg/kg<br>0.007-20 mg/kg<br>0.007-20 mg/kg<br>0.015-1 mg/kg<br>0.2-50 mg/kg<br>0.015-0.5 mg/kg<br>0.2-50mg/kg |
|     |                            | Hypericine                                                                                                                                         | LI-SOP-MCLCHC-55 by<br>HPLC<br>(J. AOAC 2002)                                                                             | 0.38-1.5 mg/kg                                                                                                                                                                                                                                         |

**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 56 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed                                                                                                                                                                                                                                                | Test Method Specification against which tests are performed                                               | Range of Testing / Limits of Detection                                                                                                                                                                                                                                           |
|-----|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |                            |                                                                                                                                                                                                                                                                        | Issue date:15.09.2015<br>Version: 03                                                                      |                                                                                                                                                                                                                                                                                  |
|     |                            | Safrole                                                                                                                                                                                                                                                                | LI-SOP-MCLCHC-56 by HPLC(AOAC 969.13)<br>Issue date:15.09.2015<br>Version: 03                             | 3-15 mg/kg                                                                                                                                                                                                                                                                       |
|     |                            | Isosafrole                                                                                                                                                                                                                                                             | LI-SOP-MCLCHC-56 by HPLC(AOAC 969.13)<br>Issue date:15.09.2015<br>Version: 03                             | 3-15 mg/kg                                                                                                                                                                                                                                                                       |
|     |                            | Cyanide                                                                                                                                                                                                                                                                | LI-00.576-2 by<br>Issue date:December 2010<br>Version -2                                                  | 0.5-10 mg/kg                                                                                                                                                                                                                                                                     |
|     |                            | Aflatoxin B1,<br>Aflatoxin G1<br>Aflatoxin B2,<br>Aflatoxin G2<br>Total Aflatoxin (B +G)                                                                                                                                                                               | LI-SGRL-99.033 ( AOAC 991.31)<br>Issue date:04.05.2017<br>Version: 06<br>immunoaffinity clean-up and UPLC | B1- 0.1-1000 µg/kg<br>G1- 0.10-100 µg/kg,<br>B2-0.04-100 µg/kg<br>G2 –0.04-100 µg/kg,<br>B+G- 0.1-1000 µg/kg                                                                                                                                                                     |
|     |                            | 3- and 15-acetyldeoxynivalenol<br>Aflatoxin B1<br>Aflatoxin B2<br>Aflatoxin G1<br>Aflatoxin G2<br>Aflatoxin M1<br>Aflatoxins B+G (Total)<br>Deoxynivalenol (DON<br>FUMONISIN B1<br>FUMONISIN B2<br>FUMONISINS (Total B1+B2)<br>HT-2 TOXIN<br>NIVALENOL<br>OCHRATOXIN A | LI-00.185 (LC-MSMS)<br>Issue Date: July 2013                                                              | 100-1000 µg/kg<br><br>0.025-1000 µg/kg<br>0.025-1000 µg/kg<br>0.025-100 µg/kg<br>0.025-100 µg/kg<br>0.025-100 µg/kg<br>0.10-1000 µg/kg<br>50-1000 µg/kg<br>50-1000 µg/kg<br>50-1000 µg/kg<br>100-2000 µg/kg<br>25-2000 µg/kg<br>100-1000 µg/kg<br>0.5-100 µg/kg<br>50-1000 µg/kg |



**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 57 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed                                                                                                                                                                                                                                                                                                         | Test Method Specification against which tests are performed                                                             | Range of Testing / Limits of Detection                                                                                                                                                                                                                                                                         |
|-----|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |                            | T-2 & HT-2 Toxins(Total)<br>T-2 TOXIN<br>Zearalenone                                                                                                                                                                                                                                                                            |                                                                                                                         | 25-1000 µg/kg<br>20-1000 µg/kg                                                                                                                                                                                                                                                                                 |
|     |                            | Melamine by LC<br>MSMS                                                                                                                                                                                                                                                                                                          | LI-00.176-4<br>Issue date: April 2009<br>Version 04                                                                     | 0.05-100mg/kg                                                                                                                                                                                                                                                                                                  |
| 4   | Oil Seeds and by-Products  | Aflatoxin B1,<br>Aflatoxin G1<br>Aflatoxin B2,<br>Aflatoxin G2<br>Total Aflatoxin (B +G)                                                                                                                                                                                                                                        | LI-SGRL-99.033 ( AOAC 991.31)<br>Issue date:04.05.2017<br>Version: 06<br>Aflatoxins by immunoaffinity clean-up and UPLC | B1- 0.1-1000 µg/kg<br>G1- 0.10-100 µg/kg,<br>B2-0.04-100 µg/kg<br>G2 –0.04-100 µg/kg,<br>B+G- 0.1-1000 µg/kg                                                                                                                                                                                                   |
|     |                            | 3- and 15-acetyldeoxynivalenol<br>Aflatoxin B1<br>Aflatoxin B2<br>Aflatoxin G1<br>Aflatoxin G2<br>Aflatoxin M1<br>Aflatoxins B+G (Total)<br>Deoxynivalenol (DON<br>FUMONISIN B1<br>FUMONISIN B2<br>FUMONISINS (Total B1+B2)<br>HT-2 TOXIN<br>NIVALENOL<br>OCHRATOXIN A<br>T-2 & HT-2 Toxins (Total)<br>T-2 TOXIN<br>Zearalenone | LI-00.185 (LC-MSMS),<br>LC-MS/MS<br>Issue Date: July 2013                                                               | 100-1000 µg/kg<br>0.025-1000 µg/kg<br>0.025-1000 µg/kg<br>0.025-100 µg/kg<br>0.025-100 µg/kg<br>0.025-100 µg/kg<br>0.10-1000 µg/kg<br>50-1000 µg/kg<br>50-1000 µg/kg<br>50-1000 µg/kg<br>100-2000 µg/kg<br>25-2000 µg/kg<br>100-1000 µg/kg<br>0.5-100 µg/kg<br>50-1000 µg/kg<br>25-1000 µg/kg<br>20-1000 µg/kg |
| 5.  | Pesticide                  | Organophosphorus                                                                                                                                                                                                                                                                                                                | LI-00.029 GC Issue Date :                                                                                               | Add in each column                                                                                                                                                                                                                                                                                             |

**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 58 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed        | Test Method Specification against which tests are performed | Range of Testing / Limits of Detection |
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|     | <b>Residues in Oils</b>    | and pyrethroids: 42 compounds: | November 1987                                               | mg/kg                                  |
|     |                            | Methamidophos                  |                                                             | 0.024-0.200 mg/kg                      |
|     |                            | Trichlorfon                    |                                                             | 0.126-1.00 mg/kg                       |
|     |                            | Demeton-S-methyl               |                                                             | 0.010-0.200 mg/kg                      |
|     |                            | Paraoxon-methyl                |                                                             | 0.024-0.200 mg/kg                      |
|     |                            | Diazinon                       |                                                             | 0.010-0.200 mg/kg                      |
|     |                            | Phosphamidon                   |                                                             | 0.050-0.200 mg/kg                      |
|     |                            | Malaoxon                       |                                                             | 0.050-0.200 mg/kg                      |
|     |                            | Chlorpyrifos-methyl            |                                                             | 0.010-0.200 mg/kg                      |
|     |                            | Fenitrothion                   |                                                             | 0.010-0.200 mg/kg                      |
|     |                            | Malathion                      |                                                             | 0.010-0.200 mg/kg                      |
|     |                            | Methidathion                   |                                                             | 0.010-0.200 mg/kg                      |
|     |                            | Bromophos-ethyl                |                                                             | 0.010-0.200 mg/kg                      |
|     |                            | Bromophos-methyl               |                                                             | 0.010-0.200 mg/kg                      |
|     |                            | Ethion                         |                                                             | 0.010-0.200 mg/kg                      |
|     |                            | Azinphos-methyl*               |                                                             | 0.024-0.200 mg/kg                      |
|     |                            | Methacrifos                    |                                                             | 0.010-0.200 mg/kg                      |
|     |                            | Dichlorvos                     |                                                             | 0.010-0.200 mg/kg                      |
|     |                            | Chlorpyrifos-ethyl             |                                                             | 0.010-0.200 mg/kg                      |
|     |                            | Formothion                     |                                                             | 0.010-0.200 mg/kg                      |
|     |                            | Pirimiphos-methyl              |                                                             | 0.010-0.200 mg/kg                      |
|     |                            | Parathion-ethyl                |                                                             | 0.010-0.200 mg/kg                      |
|     |                            | Parathion-methyl               |                                                             | 0.010-0.200 mg/kg                      |
|     |                            | Etrimfos                       |                                                             | 0.010-0.200 mg/kg                      |
|     |                            | Fenthion                       |                                                             | 0.010-0.200 mg/kg                      |
|     |                            | Chlorfenvinphos                |                                                             | 0.024-0.200 mg/kg                      |
|     |                            | Edifenfos                      |                                                             | 0.010-0.200 mg/kg                      |
|     |                            | Phenthoate                     |                                                             | 0.010-0.200 mg/kg                      |
|     |                            | Phorate                        |                                                             | 0.010-0.200 mg/kg                      |
|     |                            | Monocrotofos                   |                                                             | 0.200-2.00 mg/kg                       |
|     |                            | Profenofos                     |                                                             | 0.050-0.200 mg/kg                      |
|     |                            | Disulfoton                     |                                                             | 0.025-0.200 mg/kg                      |
|     |                            | Fenamiphos                     |                                                             | 0.025-0.200 mg/kg                      |

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**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 60 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test                                                                                                                                                | Specific Test Performed                           | Test Method Specification against which tests are performed                                      | Range of Testing / Limits of Detection |
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|     |                                                                                                                                                                           | PCB 138                                           |                                                                                                  | 0.030-0.200 mg/kg                      |
|     |                                                                                                                                                                           | PCB 153                                           |                                                                                                  | 0.030-0.200 mg/kg                      |
|     |                                                                                                                                                                           | PCB180                                            |                                                                                                  | 0.030-0.200 mg/kg                      |
| 7.  | <b>Pesticide Residues in Non Fatty Foods (Cereals &amp; Cereal product, Fruit &amp; fruit Products, Vegetable &amp; Vegetable Products Herbs, Spices&amp; Condiments)</b> | Organochlorine and Organophosphorus, 86 compounds | LI-00.140-1,GC Issue Date: June 2009 Version 01 (CEN European Standard EN 12393:1998) Version-01 | Units-mg/kg                            |
|     |                                                                                                                                                                           | Captan                                            |                                                                                                  | 0.016-0.200 mg/kg                      |
|     |                                                                                                                                                                           | a-Chlordane                                       |                                                                                                  | 0.010-0.200 mg/kg                      |
|     |                                                                                                                                                                           | a-Endosulphan                                     |                                                                                                  | 0.010-0.200 mg/kg                      |
|     |                                                                                                                                                                           | a-HCH                                             |                                                                                                  | 0.010-0.200 mg/kg                      |
|     |                                                                                                                                                                           | Aldrin                                            |                                                                                                  | 0.010-0.200 mg/kg                      |
|     |                                                                                                                                                                           | b-Endosulphan                                     |                                                                                                  | 0.010-0.200 mg/kg                      |
|     |                                                                                                                                                                           | b-HCH                                             |                                                                                                  | 0.010-0.200 mg/kg                      |
|     |                                                                                                                                                                           | Bitertanol                                        |                                                                                                  | 0.040-5.00 mg/kg                       |
|     |                                                                                                                                                                           | Buprofezin                                        |                                                                                                  | 0.010-0.200 mg/kg                      |
|     |                                                                                                                                                                           | Captafol                                          |                                                                                                  | 0.016-0.400 mg/kg                      |
|     |                                                                                                                                                                           | Carbaryl                                          |                                                                                                  | 0.321-5.00 mg/kg                       |
|     |                                                                                                                                                                           | Carbosulphan                                      |                                                                                                  | 0.040-5.00 mg/kg                       |
|     |                                                                                                                                                                           | Chloropyrifos                                     |                                                                                                  | 0.016-0.500 mg/kg                      |
|     |                                                                                                                                                                           | Chlorpyrifos Methyl                               |                                                                                                  | 0.010-0.200 mg/kg                      |
|     |                                                                                                                                                                           | Coumaphos                                         |                                                                                                  | 0.010-0.200 mg/kg                      |
|     |                                                                                                                                                                           | Cypermethrin (sum of isomers)                     |                                                                                                  | 0.032-0.200 mg/kg                      |
|     |                                                                                                                                                                           | DDT                                               |                                                                                                  | 0.016-0.400 mg/kg                      |
|     |                                                                                                                                                                           | Deltamethrin                                      |                                                                                                  | 0.010-1.00 mg/kg                       |
|     |                                                                                                                                                                           | d-HCH                                             |                                                                                                  | 0.016-0.400 mg/kg                      |
|     |                                                                                                                                                                           | Diazinon                                          | LI-00.140-1 GC Issue Date: June 2009 (CEN European Standard EN 12393:1998) Version-01            | 0.010-0.200 mg/kg                      |
|     |                                                                                                                                                                           | Dichlorovos                                       |                                                                                                  | 0.010-0.200 mg/kg                      |
|     |                                                                                                                                                                           | Diclofop-methyl                                   |                                                                                                  | 0.016-0.200 mg/kg                      |
|     |                                                                                                                                                                           | Dicofol                                           |                                                                                                  | 0.040-0.200 mg/kg                      |
|     |                                                                                                                                                                           | Dieldrin                                          |                                                                                                  | 0.010-0.200 mg/kg                      |
|     |                                                                                                                                                                           | Difenconazole                                     |                                                                                                  | 0.016-0.200 mg/kg                      |
|     |                                                                                                                                                                           | Dimethoate                                        |                                                                                                  | 0.321-5.00 mg/kg                       |

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Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 61 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed | Test Method Specification against which tests are performed                           | Range of Testing / Limits of Detection |
|-----|----------------------------|-------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
|     |                            | Edifenphos              |                                                                                       | 0.010-0.200 mg/kg                      |
|     |                            | Endosulfan              |                                                                                       | 0.010-0.200 mg/kg                      |
|     |                            | EndosulfanSulfate       |                                                                                       | 0.010-0.200 mg/kg                      |
|     |                            | Endrin                  |                                                                                       | 0.010-0.200 mg/kg                      |
|     |                            | Esfenvalerate           |                                                                                       | 0.012-0.200 mg/kg                      |
|     |                            | Ethion                  |                                                                                       | 0.006-0.200 mg/kg                      |
|     |                            | Fenarimol               |                                                                                       | 0.016-0.200 mg/kg                      |
|     |                            | Fenazaquin              |                                                                                       | 0.161-2.00 mg/kg                       |
|     |                            | Fenitrothion            |                                                                                       | 0.006 -0.200 mg/kg                     |
|     |                            | Fenpropathrin           |                                                                                       | 0.016-0.200 mg/kg                      |
|     |                            | Fenthion                |                                                                                       | 0.010-0.200 mg/kg                      |
|     |                            | fenvalerate             | LI-00.140-1 GC Issue Date: June 2009 (CEN European Standard EN 12393:1998) Version 01 | 0.012-0.200 mg/kg                      |
|     |                            | Flusilazole             |                                                                                       | 0.040-0.200 mg/kg                      |
|     |                            | Formothion              |                                                                                       | 0.010-0.200 mg/kg                      |
|     |                            | g-Chlordane             |                                                                                       | 0.010-0.200 mg/kg                      |
|     |                            | g-HCH                   |                                                                                       | 0.010-0.200 mg/kg                      |
|     |                            | HCB                     |                                                                                       | 0.010-0.200 mg/kg                      |
|     |                            | e-HCH                   |                                                                                       | 0.010-0.200 mg/kg                      |
|     |                            | Heptachlor              |                                                                                       | 0.01-0.200 mg/kg                       |
|     |                            | Heptachlor Epoxide      |                                                                                       | 0.010-0.200 mg/kg                      |
|     |                            | Hexaconazole            |                                                                                       | 0.016-0.200 mg/kg                      |
|     |                            | Iprodione               |                                                                                       | 0.010-0.100 mg/kg                      |
|     |                            | Kitazin                 |                                                                                       | 0.016-0.200 mg/kg                      |
|     |                            | Kresoxim-Methyl         |                                                                                       | 0.016-0.200 mg/kg                      |
|     |                            | Lambda- Cyhalothrin     |                                                                                       | 0.010-0.200 mg/kg                      |
|     |                            | Malathion               |                                                                                       | 0.010-0.200 mg/kg                      |
|     |                            | Methacrifos             |                                                                                       | 0.010-0.200 mg/kg                      |
|     |                            | Methidathion            |                                                                                       | 0.010-0.200 mg/kg                      |
|     |                            | Monocrotophos           |                                                                                       | 0.321-5.00 mg/kg                       |
|     |                            | Oxadiazon               |                                                                                       | 0.016-0.200 mg/kg                      |
|     |                            | Oxy-Chlordane           |                                                                                       | 0.004-0.200 mg/kg                      |
|     |                            | Oxyfluorfen             |                                                                                       | 0.040-0.200 mg/kg                      |
|     |                            | Parathion methyl        |                                                                                       | 0.010-0.200 mg/kg                      |
|     |                            | Parathion-ethyl         |                                                                                       | 0.010-0.200 mg/kg                      |
|     |                            | Pendimethalin           |                                                                                       | 0.016-0.200 mg/kg                      |

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Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 62 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test                           | Specific Test Performed           | Test Method Specification against which tests are performed                           | Range of Testing / Limits of Detection |
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|     |                                                      | Permethrin                        |                                                                                       | 0.020-0.200 mg/kg                      |
|     |                                                      | Phenthoate                        |                                                                                       | 0.010-0.200 mg/kg                      |
|     |                                                      | Phorate                           |                                                                                       | 0.010 -0.200 mg/kg                     |
|     |                                                      | Phosalone                         | LI-00.140-1 GC Issue Date: June 2009 (CEN European Standard EN 12393:1998) Version 01 | 0.050-0.500 mg/kg                      |
|     |                                                      | Phosphamidon                      |                                                                                       | 0.032 -0.200 mg/kg                     |
|     |                                                      | Pirimphos-methyl                  |                                                                                       | 0.010-0.200 mg/kg                      |
|     |                                                      | Prochloraz                        |                                                                                       | 0.200 -1.00 mg/kg                      |
|     |                                                      | Profenofos                        |                                                                                       | 0.032 -0.200 mg/kg                     |
|     |                                                      | Propargite                        |                                                                                       | 0.401-2.00 mg/kg                       |
|     |                                                      | Propiconazole                     |                                                                                       | 0.016 -0.200 mg/kg                     |
|     |                                                      | Pyrethrins                        |                                                                                       | 0.016 -0.200 mg/kg                     |
|     |                                                      | Quinolphos                        |                                                                                       | 0.006 -0.200 mg/kg                     |
|     |                                                      | Quintozene (PCNB)                 |                                                                                       | 0.016 -0.200 mg/kg                     |
|     |                                                      | Thiometon                         |                                                                                       | 0.321 -5.00 mg/kg                      |
|     |                                                      | Thrichlorofon                     |                                                                                       | 0.032 -0.200 mg/kg                     |
|     |                                                      | Trans Heptachlor Epoxide          |                                                                                       | 0.010-0.200 mg/kg                      |
|     |                                                      | Triadimefon                       |                                                                                       | 0.016 -0.200 mg/kg                     |
|     |                                                      | Triallate                         |                                                                                       | 0.016 -0.200 mg/kg                     |
|     |                                                      | Triazophos                        |                                                                                       | 0.016 -0.200 mg/kg                     |
|     |                                                      | Trifloxystrobin                   |                                                                                       | 0.010-0.200 mg/kg                      |
|     |                                                      | Trifluralin                       |                                                                                       | 0.016 -0.200 mg/kg                     |
|     |                                                      | Bifenthrin                        |                                                                                       | 0.010-0.200 mg/kg                      |
|     |                                                      | Cyfluthrin                        |                                                                                       | 0.016 -0.200 mg/kg                     |
|     |                                                      | PCB 28                            |                                                                                       | 0.010-0.200 mg/kg                      |
|     |                                                      | PCB 52                            |                                                                                       | 0.010-0.200 mg/kg                      |
|     |                                                      | PCB 101                           |                                                                                       | 0.010-0.200 mg/kg                      |
|     |                                                      | PCB 138                           |                                                                                       | 0.010-0.200 mg/kg                      |
|     |                                                      | PCB 153                           |                                                                                       | 0.010-0.200v                           |
| 8.  | <b>Pesticide in Milk, Milk Powder and Chocolates</b> | Organophosphorous and pyrethroids | SOP-MCLCHC-WI-129 Issued Date:29.04.2015 Version:06                                   |                                        |
|     |                                                      | Methamidophos                     |                                                                                       | 0.010-0.10mg/kg                        |
|     |                                                      | Trichlorfon                       |                                                                                       | 0.050- 0.5mg/kg                        |
|     |                                                      | Demeton-S-methyl                  |                                                                                       | 0.010-0.10mg/kg                        |
|     |                                                      | Paraoxon-methyl                   |                                                                                       | 0.010-0.10mg/kg                        |

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**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 63 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed           | Test Method Specification against which tests are performed | Range of Testing / Limits of Detection |
|-----|----------------------------|-----------------------------------|-------------------------------------------------------------|----------------------------------------|
|     |                            | Diazinon                          |                                                             | 0.010-0.10mg/kg                        |
|     |                            | Phosphamidon                      |                                                             | 0.010-0.10mg/kg                        |
|     |                            | Malaoxon                          |                                                             | 0.010-0.10mg/kg                        |
|     |                            | Chlorpyrifos-methyl               |                                                             | 0.010-0.10mg/kg                        |
|     |                            | Fenitrothion                      |                                                             | 0.010-0.10mg/kg                        |
|     |                            | Malathion                         |                                                             | 0.010-0.10mg/kg                        |
|     |                            | Methidathion                      |                                                             | 0.010-0.10mg/kg                        |
|     |                            | Bromophos-ethyl                   | SOP-MCLCHC-WI-129<br>Issued Date:29.04.2015<br>Version:06   | 0.010-0.10mg/kg                        |
|     |                            | Bromophos (Bromophos-methyl)      |                                                             | 0.010-0.10mg/kg                        |
|     |                            | Ethion                            |                                                             | 0.010-0.10mg/kg                        |
|     |                            | Azinphos-methyl                   |                                                             | 0.010-0.10mg/kg                        |
|     |                            | Methacrifos                       |                                                             | 0.010-0.10mg/kg                        |
|     |                            | Dichlorvos                        |                                                             | 0.010-0.10mg/kg                        |
|     |                            | Chlorpyrifos (Chlorpyrifos ethyl) |                                                             | 0.010-0.10mg/kg                        |
|     |                            | Formothion                        |                                                             | 0.010-0.10mg/kg                        |
|     |                            | Pirimiphos-methyl                 |                                                             | 0.010-0.10mg/kg                        |
|     |                            | Parathion (parathion ethyl)       |                                                             | 0.010-0.10mg/kg                        |
|     |                            | Parathion-methyl                  |                                                             | 0.010-0.10mg/kg                        |
|     |                            | Etrimfos                          | SOP-MCLCHC-WI-129<br>Issued Date:29.04.2015<br>Version:06   | 0.010-0.10mg/kg                        |
|     |                            | Fenthion                          |                                                             | 0.010-0.10mg/kg                        |
|     |                            | Chlorfenvinphos                   |                                                             | 0.010-0.10mg/kg                        |
|     |                            | Edifenphos                        |                                                             | 0.010-0.10mg/kg                        |
|     |                            | Phenthoate                        |                                                             | 0.010-0.10mg/kg                        |
|     |                            | Phorate                           |                                                             | 0.010-0.10mg/kg                        |
|     |                            | Monocrotophos                     |                                                             | 0.010-0.10mg/kg                        |
|     |                            | Profenofos                        |                                                             | 0.010-0.10mg/kg                        |
|     |                            | Disulfoton                        |                                                             | 0.010-0.10mg/kg                        |
|     |                            | Fenamiphos                        |                                                             | 0.010-0.10mg/kg                        |
|     |                            | Ethoprophos                       |                                                             | 0.010-0.10mg/kg                        |
|     |                            | Triazophos                        |                                                             | 0.010-0.10mg/kg                        |
|     |                            | Terbufos                          | SOP-MCLCHC-WI-129<br>Issued Date:29.04.2015                 | 0.010-0.10mg/kg                        |
|     |                            | Bifenthrin                        |                                                             | 0.010-0.10mg/kg                        |

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**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
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**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 64 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed                   | Test Method Specification against which tests are performed                   | Range of Testing / Limits of Detection |
|-----|----------------------------|-------------------------------------------|-------------------------------------------------------------------------------|----------------------------------------|
|     |                            | Permethrin                                | Version:06                                                                    | 0.010-0.10mg/kg                        |
|     |                            | Cyfluthrin                                |                                                                               | 0.010-0.10mg/kg                        |
|     |                            | Cypermethrin (sum of isomers)             |                                                                               | 0.010-0.10mg/kg                        |
|     |                            | Fenvalerate                               |                                                                               | 0.010-0.10mg/kg                        |
|     |                            | Deltamethrin                              |                                                                               | 0.010-0.10mg/kg                        |
|     |                            | Thiabendazole                             |                                                                               | 0.010-0.10mg/kg                        |
|     |                            | Carbendazim (Sum of Benomyl +Carbendazim) |                                                                               | 0.010-0.10mg/kg                        |
|     |                            | Carbofuran                                |                                                                               | 0.010-0.10mg/kg                        |
| 9.  | Infant Foods               | Melamine                                  | LI-00.176-4<br>LC-MS/MS<br>Issue date: April 2009<br>Version 04               | 0.05-100mg/kg                          |
|     |                            | Cyanuric Acid                             | LI-00.176-4<br>LC-MS/MS<br>Issue date: April 2009<br>Version 04               | 0.10-100mg/kg                          |
|     |                            | Chloramphenicol                           | LI-00.145-1 LC-MS/MS<br>Issue date: March2013<br>Version 01                   | 0.04- 3 µg/kg                          |
|     |                            | Patulin                                   | LI-00.219 LC-MS/MS<br>Issue Date: February 2011                               | 5.0ug/kg-100ug/Kg                      |
|     |                            | Nitrite                                   | LI-SGRL-99.026<br>Spectrophotometer<br>Issue date: 22.05.2017<br>Version : 06 | 1.2 - 50 mg/kg                         |
|     |                            | Nitrate                                   | LI-SGRL-99.026<br>HPLC<br>Issue date: 22.05.2017<br>Version : 06              | 1.2 - 100 mg/kg                        |
|     |                            | Cyanide                                   | LI-00.576-2 by<br>Issue date : December 2010<br>Version -2                    | 0.5-10 mg/kg                           |

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**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 65 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed                                                                                                                                                                                                                  | Test Method Specification against which tests are performed                                               | Range of Testing / Limits of Detection                                                                                                                                                                                                         |
|-----|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |                            | Chloramphenicol                                                                                                                                                                                                                          | LI-00.170-1 ELISA Kit<br>Issue Date: July 2013<br>Version 01                                              | 0.1-2.0 mcg/kg                                                                                                                                                                                                                                 |
|     |                            | Hypericine                                                                                                                                                                                                                               | LI-SOP-MCLCHC-55 by HPLC<br>(J. AOAC 2002)<br>Issue date:15.09.2015<br>Version: 03                        | 0.38-1.5 mg/kg                                                                                                                                                                                                                                 |
|     |                            | Safrole                                                                                                                                                                                                                                  | LI-SOP-MCLCHC-56 by HPLC(AOAC 969.13)<br>Issue date:15.09.2015<br>Version: 03                             | 3 -15mg/kg                                                                                                                                                                                                                                     |
|     |                            | Isosafrole                                                                                                                                                                                                                               | LI-SOP-MCLCHC-56 by HPLC(AOAC 969.13)<br>Issue date:15.09.2015<br>Version: 03                             | 3-15 mg/kg                                                                                                                                                                                                                                     |
|     |                            | Aflatoxin B1<br>Aflatoxin G1<br>Aflatoxin B2<br>Aflatoxin G2<br>Aflatoxin M1<br>Aflatoxin B+G                                                                                                                                            | LI-SGRL-99.033 ( AOAC 991.31)<br>Issue date:04.05.2017<br>Version: 06<br>immunoaffinity clean-up and UPLC | B1- 0.1-1000 µg/kg<br>G1- 0.10-100 µg/kg,<br>B2-0.04-100 µg/kg<br>G2 –0.04-100 µg/kg,<br>M1 – 0.2-50 µg/kg<br>B+G- 0.1-100 µg/kg                                                                                                               |
|     |                            | 3- and 15-acetyldeoxynivalenol<br>Aflatoxin B1<br>Aflatoxin B2<br>Aflatoxin G1<br>Aflatoxin G2<br>Aflatoxin M1<br>Aflatoxins B+G (Total)<br>Deoxynivalenol(DON or FUMONISIN B1<br>FUMONISIN B2<br>FUMONISINS (Total B1+B2)<br>HT-2 TOXIN | LI-00.185 (LC-MSMS) LC-MS/MS<br>Issue Date: July 2013                                                     | 100-1000 µg/kg<br><br>0.025-1000 µg/kg<br>0.025-1000 µg/kg<br>0.025-100 µg/kg<br>0.025-100 µg/kg<br>0.025-100 µg/kg<br>0.10-1000 µg/kg<br>50-1000 µg/kg<br>50-1000 µg/kg<br>50-1000 µg/kg<br>100-2000 µg/kg<br>25-2000 µg/kg<br>100-1000 µg/kg |

**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
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**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 66 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed                                                                                                                            | Test Method Specification against which tests are performed                                                         | Range of Testing / Limits of Detection                                                                                                                                                                                                 |
|-----|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |                            | NIVALENOL<br>OCHRATOXIN A<br>T-2 & HT-2 Toxins (Total)<br>T-2 TOXIN<br>Zearalenone                                                                 |                                                                                                                     | 0.5-100 µg/kg<br>50-1000 µg/kg<br>25-1000 µg/kg<br>20-1000 µg/kg                                                                                                                                                                       |
|     |                            | Arsenic<br>Lead<br>Cadmium<br>Mercury<br>Aluminium<br>Molybdenum<br>Selenium<br>Tin<br>Chromium<br>Cobalt<br>Antimony<br>Boron<br>Silver<br>Nickel | LI-00.848-2<br>ICP MS<br>( EN 13805:2013, EN 15763:2009 & AOAC2011.19)<br><br>Issue date : April 2013<br>Version-02 | 0.007-20 mg/kg<br>0.007-20 mg/kg<br>0.007-1 mg/kg<br>0.002-0.009 mg/kg<br>0.2-100 mg/kg<br>0.07-5 mg/kg<br>0.07-5 mg/kg<br>0.02-2 mg/kg<br>0.007-2 mg/kg<br>0.007-1 mg/kg<br>0.05-1.0/kg<br>0.2-20mg/kg<br>0.05-10 mg/kg<br>0.1-5mg/kg |
|     |                            | Bromide                                                                                                                                            | LI-00.122-1 by GC-ECD<br>Gas Chromatography<br>Version 01, Issue Date-<br>March 2008                                | 5-10 mg/kg                                                                                                                                                                                                                             |
| 10. | Starch & starch Products   | Cyanide                                                                                                                                            | LI-00.576-2 by Spectrophotometer<br>Colorimetric Issue date :<br>December 2010<br>Version -2                        | 0.5-10 mg/kg                                                                                                                                                                                                                           |
|     |                            | Hypericine                                                                                                                                         | LI-SOP-MCLCHC-55 by HPLC<br>(J. AOAC 2002)<br>Issue date:15.09.2015<br>Version: 03                                  | 0.38-1.5 mg/kg                                                                                                                                                                                                                         |
|     |                            | Safrole                                                                                                                                            | LI-SOP-MCLCHC-56 by HPLC(AOAC 969.13)                                                                               | 3-15 mg/kg                                                                                                                                                                                                                             |

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**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 67 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed                                                                                   | Test Method Specification against which tests are performed                                                     | Range of Testing / Limits of Detection                                                                                                                                        |
|-----|----------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |                            |                                                                                                           | Issue date:15.09.2015<br>Version: 03                                                                            |                                                                                                                                                                               |
|     |                            | Isosafrole                                                                                                | LI-SOP-MCLCHC-56 by HPLC(AOAC 969.13)<br>Issue date:15.09.2015<br>Version: 03                                   | 3-15 mg/kg                                                                                                                                                                    |
|     |                            | Nitrite<br><br>Nitrate                                                                                    | LI-SGRL-99.026<br>Spectrophotometer<br>Issue date: 22.05.2017<br>Version : 06                                   | 1.2 -50mg/kg                                                                                                                                                                  |
|     |                            |                                                                                                           | LI-SGRL-99.026<br>Nitrate by HPLC<br>Issue date: 22.05.2017<br>Version : 06                                     | 1.2 -100mg/kg                                                                                                                                                                 |
|     |                            | Arsenic<br>Lead<br>Cadmium<br>Mercury<br>Aluminium<br>Molybdenum<br>Selenium<br>Tin<br>Chromium<br>Cobalt | LI-00.848-2<br>ICP MS<br>( EN 13805:2013, EN 15763:2009 & AOAC2011.19)<br>Issue date : April 2013<br>Version-02 | 0.007-0.1 mg/kg<br>0.007-0.1 mg/kg<br>0.007-0.1 mg/kg<br>0.002-0.01 mg/kg<br>0.2-80 mg/kg<br>0.007-1 mg/kg<br>0.007-2 mg/kg<br>0.02-2 mg/kg<br>0.007-2 mg/kg<br>0.007-2 mg/kg |
|     |                            | Aflatoxin B1<br>Aflatoxin G1<br>Aflatoxin B2<br>Aflatoxin G2<br>Aflatoxin B+G                             | LI-SGRL-99.033 ( AOAC 991.31)<br>Issue date:04.05.2017<br>Version: 06<br>immunoaffinity clean-up and UPLC       | B1- 0.1-1000 µg/kg<br>G1- 0.10-100 µg/kg,<br>B2-0.04-100 µg/kg<br>G2 -0.04-100 µg/kg,<br>B+G- 0.1-1000 µg/kg                                                                  |
|     |                            | 3- and 15-acetyldeoxynivalenol<br>Aflatoxin B1<br>Aflatoxin B2<br>Aflatoxin G1                            | LI-00.185 (LC-MSMS) LC-MS/MS<br>Issue Date: July 2013                                                           | 100-1000 µg/kg<br><br>0.025-1000 µg/kg<br>0.025-1000 µg/kg<br>0.025-100 µg/kg                                                                                                 |

**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 68 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed                                                                                                                                                                                                                                | Test Method Specification against which tests are performed                                  | Range of Testing / Limits of Detection                                                                                                                                                                                            |
|-----|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |                            | Aflatoxin G2<br>Aflatoxin M1<br>Aflatoxins B+G (Total)<br>Deoxynivalenol (DON or<br>FUMONISIN B1<br>FUMONISIN B2<br>FUMONISINS (Total<br>B1+B2)<br>HT-2 TOXIN<br>NIVALENOL<br>OCHRATOXIN A<br>T-2 & HT-2 Toxins<br>(Total)<br>T-2 TOXIN<br>Zearalenone |                                                                                              | 0.025-100 µg/kg<br>0.025-100 µg/kg<br>0.10-1000 µg/kg<br>50-1000 µg/kg<br>50-1000 µg/kg<br>50-1000 µg/kg<br>100-2000 µg/kg<br>25-2000 µg/kg<br>100-1000 µg/kg<br>0.5-100 µg/kg<br>50-1000 µg/kg<br>25-1000 µg/kg<br>20-1000 µg/kg |
| 11. | Coffee & Cocoa Products    | Hypericine                                                                                                                                                                                                                                             | LI-SOP-MCLCHC-55 by HPLC<br>(J. AOAC 2002)<br>Issue date:15.09.2015<br>Version: 03           | 0.38-1.5 mg/kg                                                                                                                                                                                                                    |
|     |                            | Safrole                                                                                                                                                                                                                                                | LI-SOP-MCLCHC-56 by HPLC(AOAC 969.13)<br>Issue date:15.09.2015<br>Version: 03                | 3-15.0 mg/kg                                                                                                                                                                                                                      |
|     |                            | Isosafrole                                                                                                                                                                                                                                             | LI-SOP-MCLCHC-56 by HPLC(AOAC 969.13)<br>Issue date:15.09.2015<br>Version: 03                | 3-15 mg/kg                                                                                                                                                                                                                        |
|     |                            | Cyanide                                                                                                                                                                                                                                                | LI-00.576-2 by Spectrophotometer<br>Colorimetric Issue date :<br>December 2010<br>Version -2 | 0.5-10 mg/kg                                                                                                                                                                                                                      |
|     |                            | Aflatoxin B1,<br>Aflatoxin G1<br>Aflatoxin B2                                                                                                                                                                                                          | LI-SGRL-99.033<br>(AOAC 991.31)<br>Issue date:04.05.2017                                     | B1- 0.1-1000 µg/kg<br>G1- 0.10-100 µg/kg,<br>B2-0.04-100 µg/kg                                                                                                                                                                    |

**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 69 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed                                                                                                                                                                                                                                                                                                                         | Test Method Specification against which tests are performed                                                               | Range of Testing / Limits of Detection                                                                                                                                                                                                                                                                             |
|-----|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |                            | Aflatoxin G2<br>Aflatoxin M1<br>Total Aflatoxin (B +G)                                                                                                                                                                                                                                                                                          | Version: 06<br>immunoaffinity clean-up<br>and UPLC                                                                        | G2 –0.04-100 µg/kg,<br>M1 – 0.2-50 µg/kg<br>B+G- 0.1-100 µg/kg                                                                                                                                                                                                                                                     |
|     |                            | 3- and 15-<br>acetyldeoxynivalenol<br>Aflatoxin B1<br>Aflatoxin B2<br>Aflatoxin G1<br>Aflatoxin G2<br>Aflatoxin M1<br>Aflatoxins B+G (Total)<br>Deoxynivalenol (DON<br>or<br>FUMONISIN B1<br>FUMONISIN B2<br>FUMONISINS (Total<br>B1+B2)<br>HT-2 TOXIN<br>NIVALENOL<br>OCHRATOXIN A<br>T-2 & HT-2 Toxins<br>(Total)<br>T-2 TOXIN<br>Zearalenone | LI-00.185 (LC-MSMS) LC-<br>MS/MS<br>Issue Date: July 2013                                                                 | 100-1000 µg/kg<br><br>0.025-1000 µg/kg<br>0.025-1000 µg/kg<br>0.025-100 µg/kg<br>0.025-100 µg/kg<br>0.025-100 µg/kg<br>0.10-1000 µg/kg<br>50-1000 µg/kg<br>50-1000 µg/kg<br>50-1000 µg/kg<br>100-2000 µg/kg<br>25-2000 µg/kg<br>100-1000 µg/kg<br>0.5-100 µg/kg<br>50-1000 µg/kg<br>25-1000 µg/kg<br>20-1000 µg/kg |
|     |                            | Bromide                                                                                                                                                                                                                                                                                                                                         | LI-00.122-1 by GC-ECD<br>Gas Chromatography<br>Version 01, Issue Date-<br>March 2008                                      | 5-10 mg/kg                                                                                                                                                                                                                                                                                                         |
|     |                            | Arsenic<br>Lead<br>Cadmium<br>Mercury<br>Aluminium<br>Molybdenum<br>Selenium<br>Tin                                                                                                                                                                                                                                                             | LI-00.848-2<br>ICP MS<br>( EN 13805:2013, EN<br>15763:2009 &<br>AOAC2011.19)<br><br>Issue date : April 2013<br>Version-02 | 0.014 - 3 mg/kg<br>0.014 - 3 mg/kg<br>0.014 - 3 mg/kg<br>0.002-10 mg/kg<br>0.8-100 mg/kg<br>0.007-20 mg/kg<br>0.007-20 mg/kg<br>0.02-20 mg/kg                                                                                                                                                                      |

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Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 70 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed                                                      | Test Method Specification against which tests are performed                                               | Range of Testing / Limits of Detection                                                                                     |
|-----|----------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
|     |                            | Chromium<br>Cobalt<br>Antimony<br>Boron<br>Silver<br>Nickel                  |                                                                                                           | 0.007-20 mg/kg<br>0.007-20 mg/kg<br>0.05-10.0/kg<br>0.2-200mg/kg<br>0.05-10 mg/kg<br>0.1-50mg/kg                           |
|     |                            | Melamine                                                                     | LI-00.176-4<br>LC-MS/MS<br>Issue date: April 2009<br>Version 04                                           | 0.05-100mg/kg                                                                                                              |
| 12. | Confectionary Products     | Hypericine                                                                   | LI-SOP-MCLCHC-55 by HPLC<br>(J. AOAC 2002)<br>Issue date:15.09.2015<br>Version: 03                        | 0.38-1.5 mg/kg                                                                                                             |
|     |                            | Safrrole                                                                     | LI-SOP-MCLCHC-56 by HPLC(AOAC 969.13)<br>Issue date:15.09.2015<br>Version: 03                             | 3-15mg/kg                                                                                                                  |
|     |                            | Isosafrole                                                                   | LI-SOP-MCLCHC-56 by HPLC(AOAC 969.13)<br>Issue date:15.09.2015<br>Version: 03                             | 3-15 mg/kg                                                                                                                 |
|     |                            | Cyanide                                                                      | LI-00.576-2 by Spectrophotometer<br>Colorimetric Determination<br>Issue date :December 2010<br>Version -2 | 0.5-10 mg/kg                                                                                                               |
|     |                            | Arsenic<br>Lead<br>Cadmium<br>Mercury<br>Aluminium<br>Molybdenum<br>Selenium | LI-00.848-2<br>ICP MS<br>( EN 13805:2013, EN 15763:2009 & AOAC2011.19)<br>Issue date : April 2013         | 0.007-20 mg/kg<br>0.007-20 mg/kg<br>0.007-20 mg/kg<br>0.002-10 mg/kg<br>0.20-100 mg/kg<br>0.007-20 mg/kg<br>0.007-20 mg/kg |

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**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 71 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test                  | Specific Test Performed                                                                                                                                                                                                                                                                                                                         | Test Method Specification against which tests are performed                                               | Range of Testing / Limits of Detection                                                                                                                                                                                                                                                                         |
|-----|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |                                             | Tin<br>Chromium<br>Cobalt                                                                                                                                                                                                                                                                                                                       | Version-02                                                                                                | 0.020-20 mg/kg<br>0.007-20 mg/kg<br>0.007-20 mg/kg                                                                                                                                                                                                                                                             |
|     |                                             | Melamine                                                                                                                                                                                                                                                                                                                                        | LI-00.176-4<br>LC-MS/MS<br>Issue date: April 2009<br>Version 04                                           | 0.05-100mg/kg                                                                                                                                                                                                                                                                                                  |
|     |                                             | 3- and 15-acetyldeoxynivalenol<br>(Total) Aflatoxin B1<br>Aflatoxin B2<br>Aflatoxin G1<br>Aflatoxin G2<br>Aflatoxin M1<br>Aflatoxins B+G (Total)<br>Deoxynivalenol(DON or<br>FUMONISIN B1<br>FUMONISIN B2<br>FUMONISINS (Total<br>B1+B2)<br>HT-2 TOXIN<br>NIVALENOL<br>OCHRATOXIN A<br>T-2 & HT-2 Toxins<br>(Total)<br>T-2 TOXIN<br>Zearalenone | LI-00.185 (LC-MSMS) LC-MS/MS<br>Issue Date: July 2013                                                     | 100-1000 µg/kg<br>0.025-1000 µg/kg<br>0.025-1000 µg/kg<br>0.025-100 µg/kg<br>0.025-100 µg/kg<br>0.025-100 µg/kg<br>0.10-1000 µg/kg<br>50-1000 µg/kg<br>50-1000 µg/kg<br>50-1000 µg/kg<br>100-2000 µg/kg<br>25-2000 µg/kg<br>100-1000 µg/kg<br>0.5-100 µg/kg<br>50-1000 µg/kg<br>25-1000 µg/kg<br>20-1000 µg/kg |
|     |                                             | Aflatoxin B1,<br>Aflatoxin G1<br>Aflatoxin B2<br>Aflatoxin G2<br>Aflatoxin M1<br>Total Aflatoxin (B +G)                                                                                                                                                                                                                                         | LI-SGRL-99.033 ( AOAC 991.31)<br>Issue date:04.05.2017<br>Version: 06<br>immunoaffinity clean-up and UPLC | B1- 0.1-1000 µg/kg<br>G1- 0.10-100 µg/kg,<br>B2-0.04-100 µg/kg<br>G2 –0.04-100 µg/kg,<br>M1 – 0.2-50 µg/kg<br>B+G- 0.1-1000 µg/kg                                                                                                                                                                              |
| 13. | Edible Colours<br>Flavour &<br>Preservative | Cyanide                                                                                                                                                                                                                                                                                                                                         | LI-00.576-2 by<br>Spectrophotometer<br>Colorimetric Determination                                         | 0.5-10 mg/kg                                                                                                                                                                                                                                                                                                   |

**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 72 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test                                                                                 | Specific Test Performed                                                                                                                                                                | Test Method Specification against which tests are performed                                                    | Range of Testing / Limits of Detection                                                                                                                                   |
|-----|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |                                                                                                            |                                                                                                                                                                                        | Issue date :December 2010<br>Version -2                                                                        |                                                                                                                                                                          |
|     |                                                                                                            | Hypericine                                                                                                                                                                             | LI-SOP-MCLCHC-55 by HPLC<br>(J. AOAC 2002)<br>Issue date:15.09.2015<br>Version: 03                             | 0.38-1.5 mg/kg                                                                                                                                                           |
|     |                                                                                                            | Safrole                                                                                                                                                                                | LI-SOP-MCLCHC-56 by HPLC(AOAC 969.13)<br>Issue date:15.09.2015<br>Version: 03                                  | 3-15 mg/kg                                                                                                                                                               |
|     |                                                                                                            | Isosafrole                                                                                                                                                                             | LI-SOP-MCLCHC-56 by HPLC(AOAC 969.13)<br>Issue date:15.09.2015<br>Version: 03                                  | 3-15 mg/kg                                                                                                                                                               |
|     |                                                                                                            | Melamine                                                                                                                                                                               | LI-00.176-4<br>y LC-MS/MS<br>Issue date: April 2009<br>Version 04                                              | 0.05-100mg/kg                                                                                                                                                            |
|     |                                                                                                            | Aflatoxin B1<br>Aflatoxin G1<br>Aflatoxin B2,<br>Aflatoxin G2<br>Total Aflatoxin B+G                                                                                                   | LI-SGRL-99.033<br>(AOAC 991.31)<br>Issue date:04.05.2017<br>Version: 06<br>immunoaffinity clean-up<br>and UPLC | B1- 0.1-1000 µg/kg<br>G1- 0.10-100 µg/kg,<br>B2-0.04-100 µg/kg<br>G2 –0.04-100 µg/kg,<br>B+G-0.1-1000 µg/kg                                                              |
|     | <b>Edible Color<br/>Flavour &amp;<br/>Preservative<br/>Edible Color<br/>Flavour &amp;<br/>Preservative</b> | 3- and 15-<br>acetyldeoxynivalenol<br>Aflatoxin B1<br>Aflatoxin B2<br>Aflatoxin G1<br>Aflatoxin G2<br>Aflatoxin M1<br>Aflatoxins B+G (Total)<br>Deoxynivalenol (DON or<br>FUMONISIN B1 | LI-00.185 (LC-MSMS) LC-<br>MS/MS<br>Issue Date: July 2013                                                      | 100-1000 µg/kg<br><br>0.025-1000 µg/kg<br>0.025-1000 µg/kg<br>0.025-100 µg/kg<br>0.025-100 µg/kg<br>0.025-100 µg/kg<br>0.10-1000 µg/kg<br>50-1000 µg/kg<br>50-1000 µg/kg |



**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 73 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test       | Specific Test Performed                                                                                                                            | Test Method Specification against which tests are performed                                                         | Range of Testing / Limits of Detection                                                                                                                                                                                                 |
|-----|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |                                  | FUMONISIN B2<br>FUMONISINS (Total B1+B2)<br>HT-2 TOXIN<br>NIVALENOL<br>OCHRATOXIN A<br>T-2 & HT-2 Toxins (Total)<br>T-2 TOXIN<br>Zearalenone       |                                                                                                                     | 50-1000 µg/kg<br>100-2000 µg/kg<br>25-2000 µg/kg<br>100-1000 µg/kg<br>0.5-100 µg/kg<br>50-1000 µg/kg<br>25-1000 µg/kg<br>20-1000 µg/kg                                                                                                 |
|     |                                  | Arsenic<br>Lead<br>Cadmium<br>Mercury<br>Aluminium<br>Molybdenum<br>Selenium<br>Tin<br>Chromium<br>Cobalt<br>Antimony<br>Boron<br>Silver<br>Nickel | LI-00.848-2<br>ICP MS<br>( EN 13805:2013, EN 15763:2009 & AOAC2011.19)<br><br>Issue date : April 2013<br>Version-02 | 0.010-1 mg/kg<br>0.009-2 mg/kg<br>0.009-1 mg/kg<br>0.002-0.1 mg/kg<br>0.2-60 mg/kg<br>0.02 -4 mg/kg<br>0.02 -5 mg/kg<br>0.02-10 mg/kg<br>0.007-5 mg/kg<br>0.007-1 mg/kg<br>0.05-2 mg/kg<br>0.4- 40mg/kg<br>0.05-1 mg/kg<br>0.1-5 mg/kg |
| 14. | Flavour                          | Arsenic<br>Lead<br>Cadmium<br>Mercury<br>Aluminium<br>Molybdenum<br>Selenium<br>Tin<br>Chromium<br>Cobalt                                          | LI-00.848-2<br>ICP MS<br>( EN 13805:2013, EN 15763:2009 & AOAC2011.19)<br><br>Issue date : April 2013<br>Version-02 | 0.090-20 mg/kg<br>0.060-20 mg/kg<br>0.060-20 mg/kg<br>0.060-10 mg/kg<br>5.0-100 mg/kg<br>0.060-20 mg/kg<br>0.090-20 mg/kg<br>0.60-20 mg/kg<br>0.15-20 mg/kg<br>0.060-20 mg/kg                                                          |
| 15. | Food Additives - Vitamin Pre Mix | Hypericine                                                                                                                                         | LI-SOP-MCLCHC-55 by HPLC                                                                                            | 0.38-1.5 mg/kg                                                                                                                                                                                                                         |

**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 74 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed                                                                                                                                                            | Test Method Specification against which tests are performed                                                    | Range of Testing / Limits of Detection                                                                                                                                   |
|-----|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |                            |                                                                                                                                                                                    | (J. AOAC 2002)<br>Issue date:15.09.2015<br>Version: 03                                                         |                                                                                                                                                                          |
|     |                            | Safrole                                                                                                                                                                            | LI-SOP-MCLCHC-56 by HPLC(AOAC 969.13)<br>Issue date:15.09.2015<br>Version: 03                                  | 3-15 mg/kg                                                                                                                                                               |
|     |                            | Isosafrole                                                                                                                                                                         | LI-SOP-MCLCHC-56 by HPLC(AOAC 969.13)<br>Issue date:15.09.2015<br>Version: 03                                  | 3-15 mg/kg                                                                                                                                                               |
|     |                            | Cyanide                                                                                                                                                                            | LI-00.576-2 by Spectrophotometer<br>Colorimetric Issue date :<br>December 2010<br>Version -2                   | 0.5-5.0 mg/kg                                                                                                                                                            |
|     |                            | Melamine                                                                                                                                                                           | LI-00.176-4<br>LC-MS/MS<br>Issue date: April 2009<br>Version 04                                                | 0.05-100mg/kg                                                                                                                                                            |
|     |                            | Aflatoxin B1<br>Aflatoxin G1<br>Aflatoxin B2,<br>Aflatoxin G2<br>Total Aflatoxin B+G                                                                                               | LI-SGRL-99.033<br>(AOAC 991.31)<br>Issue date:04.05.2017<br>Version: 06<br>immunoaffinity clean-up<br>and UPLC | B1- 0.1-1000 µg/kg<br>G1- 0.10-100 µg/kg,<br>B2-0.04-100 µg/kg<br>G2 -0.04-100 µg/kg,<br>B+G-0.1-1000 µg/kg                                                              |
|     |                            | 3- and 15-acetyldeoxynivalenol<br>Aflatoxin B1<br>Aflatoxin B2<br>Aflatoxin G1<br>Aflatoxin G2<br>Aflatoxin M1<br>Aflatoxins B+G (Total)<br>Deoxynivalenol (DON or<br>FUMONISIN B1 | LI-00.185 (LC-MSMS) LC-MS/MS<br>Issue Date: July 2013                                                          | 100-1000 µg/kg<br><br>0.025-1000 µg/kg<br>0.025-1000 µg/kg<br>0.025-100 µg/kg<br>0.025-100 µg/kg<br>0.025-100 µg/kg<br>0.10-1000 µg/kg<br>50-1000 µg/kg<br>50-1000 µg/kg |

**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 75 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test    | Specific Test Performed                                                                                                                      | Test Method Specification against which tests are performed                                                         | Range of Testing / Limits of Detection                                                                                                                                        |
|-----|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |                               | FUMONISIN B2<br>FUMONISINS (Total B1+B2)<br>HT-2 TOXIN<br>NIVALENOL<br>OCHRATOXIN A<br>T-2 & HT-2 Toxins (Total)<br>T-2 TOXIN<br>Zearalenone |                                                                                                                     | 50-1000 µg/kg<br>100-2000 µg/kg<br>25-2000 µg/kg<br>100-1000 µg/kg<br>0.5-100 µg/kg<br>50-1000 µg/kg<br>25-1000 µg/kg<br>20-1000 µg/kg                                        |
|     |                               | Arsenic<br>Lead<br>Cadmium<br>Mercury<br>Aluminium<br>Molybdenum<br>Selenium<br>Tin<br>Chromium<br>Cobalt                                    | LI-00.848-2<br>Issue date : April 2013<br>Version-02                                                                | 0.007-10 mg/kg<br>0.007-10 mg/kg<br>0.007-20 mg/kg<br>0.002-5 mg/kg<br>0.2-200 mg/kg<br>0.007-20 mg/kg<br>0.007-15 mg/kg<br>0.02-20 mg/kg<br>0.007-50 mg/kg<br>0.007-20 mg/kg |
| 16. | <b>Food Additives - Salts</b> | Melamine                                                                                                                                     | LI-00.176-4<br>LC-MS/MS<br>Issue date: April 2009<br>Version 04                                                     | 0.05-100mg/kg                                                                                                                                                                 |
|     |                               | Arsenic<br>Lead<br>Cadmium<br>Mercury<br>Aluminium<br>Molybdenum<br>Selenium<br>Tin<br>Chromium<br>Cobalt                                    | LI-00.848-2<br>ICP MS<br>( EN 13805:2013, EN 15763:2009 & AOAC2011.19)<br><br>Issue date : April 2013<br>Version-02 | 0.090-20 mg/kg<br>0.060-20 mg/kg<br>0.060-20 mg/kg<br>0.060-10 mg/kg<br>5.0-100 mg/kg<br>0.060-20 mg/kg<br>0.090-20 mg/kg<br>0.60-20 mg/kg<br>0.15-20 mg/kg<br>0.060-20 mg/kg |
| 17. | <b>Fruits and Fruit</b>       | Bromide                                                                                                                                      | LI-00.122-1 by GC-ECD                                                                                               | 5-10 mg/kg                                                                                                                                                                    |

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Convenor

**N. Venkateswaran**  
Program Director

**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
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**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 76 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl.        | Product / Material of Test                                                                                   | Specific Test Performed           | Test Method Specification against which tests are performed                     | Range of Testing / Limits of Detection |
|------------|--------------------------------------------------------------------------------------------------------------|-----------------------------------|---------------------------------------------------------------------------------|----------------------------------------|
|            | <b>Products Vegetable &amp; Vegetable Products</b>                                                           |                                   | Gas Chromatography<br>Version 01, Issue Date-<br>March 2008                     |                                        |
|            |                                                                                                              | Ethylene Oxide (Total)            | LI-00.032 by GC-ECD<br>Issue Date : January 1990                                | 0.1 mg/kg                              |
| <b>18.</b> | <b>Fruit and Fruit Products, Vegetable and Vegetable Products, Low Fat Milk Powder (MSK/WPC / Caseinate)</b> | Acephate                          | LI-00.019-1<br>Version Number-1<br>Issue Date- 2017<br>QUECHERS LC and GC MS/MS | 5-50 µg/kg                             |
|            |                                                                                                              | Azinophos-ethyl                   |                                                                                 | 5-50 µg/kg                             |
|            |                                                                                                              | Azinophos-methyl                  |                                                                                 | 5-50 µg/kg                             |
|            |                                                                                                              | Bromuconazole                     |                                                                                 | 5-50 µg/kg                             |
|            |                                                                                                              | Chlorpyrifos-ethyl (Chlorpyrifos) |                                                                                 | 5-50 µg/kg                             |
|            |                                                                                                              | Chlorpyrifos-Methyl               |                                                                                 | 5-50 µg/kg                             |
|            |                                                                                                              | Cyproconazole                     |                                                                                 | 5-50 µg/kg                             |
|            |                                                                                                              | Diazinon                          |                                                                                 | 5-50 µg/kg                             |
|            |                                                                                                              | Dichlorvos                        |                                                                                 | 5-50 µg/kg                             |
|            |                                                                                                              | Dicrotophos                       |                                                                                 | 5-50 µg/kg                             |
|            |                                                                                                              | Difenoconazole                    |                                                                                 | 5-50 µg/kg                             |
|            |                                                                                                              | Dimethoate                        |                                                                                 | 5-50 µg/kg                             |
|            |                                                                                                              | Diniconazole                      |                                                                                 | 5-50 µg/kg                             |
|            |                                                                                                              | Disulfoton                        |                                                                                 | 5-50 µg/kg                             |
|            |                                                                                                              | Disulfoton-sulfoxide              |                                                                                 | 5-50 µg/kg                             |
|            | <b>Cereal and Cereal Products Infant Foods</b>                                                               | Edifenphos                        | LI-00.019-1<br>Version Number-1<br>Issue Date- 2017<br>QUECHERS LC and GC MS/MS | 5-50 µg/kg                             |
|            |                                                                                                              | EPN                               |                                                                                 | 5-50 µg/kg                             |
|            |                                                                                                              | Epoxiconazole                     |                                                                                 | 5-50 µg/kg                             |
|            |                                                                                                              | Ethion                            |                                                                                 | 5-50 µg/kg                             |
|            |                                                                                                              | Ethoprophos                       |                                                                                 | 5-50 µg/kg                             |
|            |                                                                                                              | Fenamiphos                        |                                                                                 | 5-50 µg/kg                             |
|            |                                                                                                              | Fenbuconazole                     |                                                                                 | 5-50 µg/kg                             |
|            |                                                                                                              | Fenhexamid                        |                                                                                 | 5-50 µg/kg                             |
|            |                                                                                                              | Fensulfothion                     |                                                                                 | 5-50 µg/kg                             |
|            |                                                                                                              | Fenthion                          |                                                                                 | 5-50 µg/kg                             |
|            |                                                                                                              | Fenthion sulfoxide                |                                                                                 | 5-50 µg/kg                             |
|            |                                                                                                              | Fluquinconazole                   |                                                                                 | 5-50 µg/kg                             |
|            |                                                                                                              | Fosthiazate                       |                                                                                 | 5-50 µg/kg                             |

**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 77 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed       | Test Method Specification against which tests are performed | Range of Testing / Limits of Detection |
|-----|----------------------------|-------------------------------|-------------------------------------------------------------|----------------------------------------|
|     |                            | Hexaconazole                  |                                                             | 5-50 µg/kg                             |
|     |                            | Isazofos                      |                                                             | 5-50 µg/kg                             |
|     |                            | Metconazole                   | LI-00.019-1                                                 | 5-50 µg/kg                             |
|     |                            | Oxydemeton-methyl             | Version Number-1                                            | 5-50 µg/kg                             |
|     |                            | Propiconazole                 | Issue Date- 2017                                            | 5-50 µg/kg                             |
|     |                            | Prothioconazole desthio       | QUECHERS LC and GC MS/MS                                    | 5-50 µg/kg                             |
|     |                            | Tebuconazole                  |                                                             | 5-50 µg/kg                             |
|     |                            | Tetraconazole                 |                                                             | 5-50 µg/kg                             |
|     |                            | Triticonazole                 |                                                             | 5-50 µg/kg                             |
|     |                            | Fenoxaprop-ethyl              |                                                             | 5-50 µg/kg                             |
|     |                            | Acetamiprid                   |                                                             | 5-50 µg/kg                             |
|     |                            | Aldicarb                      |                                                             | 5-50 µg/kg                             |
|     |                            | Aldicarb sulfone              |                                                             | 5-50 µg/kg                             |
|     |                            | Aldicarb sulfoxide            |                                                             | 5-50 µg/kg                             |
|     |                            | Atrazine                      |                                                             | 5-50 µg/kg                             |
|     |                            | Azoxystrobin                  |                                                             | 5-50 µg/kg                             |
|     |                            | Boscalid                      |                                                             | 5-50 µg/kg                             |
|     |                            | Cyfluthrin                    |                                                             | 5-50 µg/kg                             |
|     |                            | Chlorobenzilate               |                                                             | 5-50 µg/kg                             |
|     |                            | LAMBDA-CYHALOTHRIN            |                                                             | 5-50 µg/kg                             |
|     |                            | Fenoxyp-prop-p-ethyl          |                                                             | 5-50 µg/kg                             |
|     |                            | Fenarimol                     |                                                             | 10-50 µg/kg                            |
|     |                            | Captan                        |                                                             | 10-50 µg/kg                            |
|     |                            | Captafol                      |                                                             | 10-50 µg/kg                            |
|     |                            | Dicofol                       |                                                             | 50-500 µg/kg                           |
|     |                            | chlorothalonil                |                                                             | 100-500 µg/kg                          |
|     |                            | Dithianon                     |                                                             | 50-500 µg/kg                           |
|     |                            | chlorfenpyr                   |                                                             | 10-50 µg/kg                            |
|     |                            | Novaluron                     |                                                             | 50-500 µg/kg                           |
|     |                            | Dodine                        |                                                             | 100-500 µg/kg                          |
|     |                            | 1-Naphthleneacetic acid (ANA) | LI-00.019-1<br>Version Number-1                             | 50-500 µg/kg                           |

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**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 78 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed                      | Test Method Specification against which tests are performed                     | Range of Testing / Limits of Detection |
|-----|----------------------------|----------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------|
|     |                            | Penconazole                                  | Issue Date- 2017<br>QUECHERS LC and GC MS/MS                                    | 10-50 µg/kg                            |
|     |                            | Carbendazim<br>(Sum of Benomyl +Carbendazim) |                                                                                 | 5-50 µg/kg                             |
|     |                            | Chlorantraniliprole<br>(Rynaxapyr)           |                                                                                 | 5-50 µg/kg                             |
|     |                            | Cyanazine                                    |                                                                                 | 5-50 µg/kg                             |
|     |                            | Cyprodinil                                   |                                                                                 | 5-50 µg/kg                             |
|     |                            | Diflufenican                                 |                                                                                 | 5-50 µg/kg                             |
|     |                            | Fenoxycarb                                   |                                                                                 | 5-50 µg/kg                             |
|     |                            | Flusilazole                                  |                                                                                 | 5-50 µg/kg                             |
|     |                            | Imazalil                                     |                                                                                 | 5-50 µg/kg                             |
|     |                            | Imidacloprid                                 |                                                                                 | 5-50 µg/kg                             |
|     |                            | Indoxacarb                                   |                                                                                 | 5-50 µg/kg                             |
|     |                            | Isofenphos-methyl                            |                                                                                 | 5-50 µg/kg                             |
|     |                            | Malathion                                    |                                                                                 | 5-50 µg/kg                             |
|     |                            | Mecarbam                                     |                                                                                 | 5-50 µg/kg                             |
|     |                            | Methidathion                                 |                                                                                 | 5-50 µg/kg                             |
|     |                            | Monocrotophos                                |                                                                                 | 5-50 µg/kg                             |
|     |                            | Omethoate                                    |                                                                                 | 5-50 µg/kg                             |
|     |                            | Phenthoate                                   | LI-00.019-1<br>Version Number-1<br>Issue Date- 2017<br>QUECHERS LC and GC MS/MS | 5-50 µg/kg                             |
|     |                            | Phorate                                      |                                                                                 | 5-50 µg/kg                             |
|     |                            | Phosalone                                    |                                                                                 | 5-50 µg/kg                             |
|     |                            | Phosmet                                      |                                                                                 | 5-50 µg/kg                             |
|     |                            | Phosphamidon                                 |                                                                                 | 5-50 µg/kg                             |
|     |                            | Phoxim                                       |                                                                                 | 5-50 µg/kg                             |
|     |                            | Piperonyl butoxide                           |                                                                                 | 5-50 µg/kg                             |
|     |                            | Pirimicarb                                   |                                                                                 | 5-50 µg/kg                             |
|     |                            | Pirimicarb-desmethyl                         |                                                                                 | 5-50 µg/kg                             |
|     |                            | Pirimicarb-desmethyl-formamido               |                                                                                 | 5-50 µg/kg                             |

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**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 79 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed | Test Method Specification against which tests are performed                        | Range of Testing / Limits of Detection |
|-----|----------------------------|-------------------------|------------------------------------------------------------------------------------|----------------------------------------|
|     |                            | Pirimiphos-ethyl        |                                                                                    | 5-50 µg/kg                             |
|     |                            | Pirimiphos-methyl       |                                                                                    | 5-50 µg/kg                             |
|     |                            | Profenofos              |                                                                                    | 5-50 µg/kg                             |
|     |                            | Prometryn               |                                                                                    | 5-50 µg/kg                             |
|     |                            | Propamocarb             |                                                                                    | 5-50 µg/kg                             |
|     |                            | Simazine                |                                                                                    | 5-50 µg/kg                             |
|     |                            | Simetryn                |                                                                                    | 5-50 µg/kg                             |
|     |                            | Tebufoenpyrad           | LI-00.019-1<br>Version Number-1<br>Issue Date- 2017<br>QUECHERS LC and GC<br>MS/MS | 5-50 µg/kg                             |
|     |                            | Trifloxystrobin         |                                                                                    | 5-50 µg/kg                             |
|     |                            | Chloroprotham           |                                                                                    | 5-50 µg/kg                             |
|     |                            | Carfentrazone-ethyl     |                                                                                    | 5-50 µg/kg                             |
|     |                            | Clofentezine            |                                                                                    | 5-50 µg/kg                             |
|     |                            | Diethofencarb           |                                                                                    | 5-50 µg/kg                             |
|     |                            | Fenobucarb              |                                                                                    | 5-50 µg/kg                             |
|     |                            | Fenpropimorph           |                                                                                    | 5-50 µg/kg                             |
|     |                            | Fenthion sulfon         |                                                                                    | 5-50 µg/kg                             |
|     |                            | Flufenacet              |                                                                                    | 5-50 µg/kg                             |
|     |                            | Flutriafol              |                                                                                    | 5-50 µg/kg                             |
|     |                            | Iprovalicarb            |                                                                                    | 5-50 µg/kg                             |
|     |                            | Isoprocarb              |                                                                                    | 5-50 µg/kg                             |
|     |                            | Malaoxon                |                                                                                    | 5-50 µg/kg                             |
|     |                            | Metalaxyl               |                                                                                    | 5-50 µg/kg                             |
|     |                            | Methiocarb              |                                                                                    | 5-50 µg/kg                             |
|     |                            | Methomyl                |                                                                                    | 5-50 µg/kg                             |
|     |                            | Nitenpyram              |                                                                                    | 5-50 µg/kg                             |
|     |                            | Oxadixyl                | LI-00.019-1<br>Version Number-1<br>Issue Date- 2017<br>QUECHERS LC and GC<br>MS/MS | 5-50 µg/kg                             |
|     |                            | Oxamyl                  |                                                                                    | 5-50 µg/kg                             |
|     |                            | Paclobutrazol           |                                                                                    | 5-50 µg/kg                             |
|     |                            | Paraaxon                |                                                                                    | 5-50 µg/kg                             |
|     |                            | Paraaxon methyl         |                                                                                    | 5-50 µg/kg                             |
|     |                            | Picoxystrobin           |                                                                                    | 5-50 µg/kg                             |
|     |                            | Prochloraz              |                                                                                    | 5-50 µg/kg                             |
|     |                            | Propoxur                |                                                                                    | 5-50 µg/kg                             |
|     |                            | Prosulfocarb            |                                                                                    | 5-50 µg/kg                             |
|     |                            | Pyraclostrobin          |                                                                                    | 5-50 µg/kg                             |

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**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 80 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed | Test Method Specification against which tests are performed                        | Range of Testing / Limits of Detection |
|-----|----------------------------|-------------------------|------------------------------------------------------------------------------------|----------------------------------------|
|     |                            | Pyrimethanil            |                                                                                    | 5-50 µg/kg                             |
|     |                            | Quinalphos              |                                                                                    | 5-50 µg/kg                             |
|     |                            | Tetrachlorvinphos       |                                                                                    | 5-50 µg/kg                             |
|     |                            | Thiobencarb             |                                                                                    | 5-50 µg/kg                             |
|     |                            | Thiodicarb              |                                                                                    | 5-50 µg/kg                             |
|     |                            | Tolclofos-methyl        |                                                                                    | 5-50 µg/kg                             |
|     |                            | Triazophos              |                                                                                    | 5-50 µg/kg                             |
|     |                            | Fenzaquin               | LI-00.019-1<br>Version Number-1<br>Issue Date- 2017<br>QUECHERS LC and GC<br>MS/MS | 5-50 µg/kg                             |
|     |                            | Bromophos-ethyl         |                                                                                    | 5-50 µg/kg                             |
|     |                            | Amidosulfuron           |                                                                                    | 5-50 µg/kg                             |
|     |                            | Azimsulfuron            |                                                                                    | 5-50 µg/kg                             |
|     |                            | Bensulfuron-methyl      |                                                                                    | 5-50 µg/kg                             |
|     |                            | Chlorotoluron           |                                                                                    | 5-50 µg/kg                             |
|     |                            | Chlorsulfuron           |                                                                                    | 5-50 µg/kg                             |
|     |                            | Ethoxysulfuron          |                                                                                    | 5-50 µg/kg                             |
|     |                            | Flufenoxuron            |                                                                                    | 5-50 µg/kg                             |
|     |                            | Foramsulfuron           |                                                                                    | 5-50 µg/kg                             |
|     |                            | Halosulfuron-methyl     |                                                                                    | 5-50 µg/kg                             |
|     |                            | Imazosulfuron           |                                                                                    | 5-50 µg/kg                             |
|     |                            | Iodosulfuron-methyl     |                                                                                    | 5-50 µg/kg                             |
|     |                            | Isoproturon             |                                                                                    | 5-50 µg/kg                             |
|     |                            | Linuron                 |                                                                                    | 5-50 µg/kg                             |
|     |                            | Mesosulfuron-methyl     |                                                                                    | 5-50 µg/kg                             |
|     |                            | Methabenzthiazuron      |                                                                                    | 5-50 µg/kg                             |
|     |                            | Metrafenone             |                                                                                    | 5-50 µg/kg                             |
|     |                            | Metsulfuron-methyl      | LI-00.019-1<br>Version Number-1<br>Issue Date- 2017<br>QUECHERS LC and GC<br>MS/MS | 5-50 µg/kg                             |
|     |                            | Nicosulfuron            |                                                                                    | 5-50 µg/kg                             |
|     |                            | Oxadiargyl              |                                                                                    | 5-50 µg/kg                             |
|     |                            | Pencycuron              |                                                                                    | 5-50 µg/kg                             |
|     |                            | Pretilachlor            |                                                                                    | 5-50 µg/kg                             |
|     |                            | Propham                 |                                                                                    | 5-50 µg/kg                             |
|     |                            | Proquinazid             |                                                                                    | 5-50 µg/kg                             |
|     |                            | Prosulfuron             |                                                                                    | 5-50 µg/kg                             |
|     |                            | Pyraflufen-ethyl        |                                                                                    | 5-50 µg/kg                             |
|     |                            | Spinosad (Total         |                                                                                    | 5-50 µg/kg                             |



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**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 81 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed | Test Method Specification against which tests are performed                        | Range of Testing / Limits of Detection |
|-----|----------------------------|-------------------------|------------------------------------------------------------------------------------|----------------------------------------|
|     |                            | Spinosyn A+D)           |                                                                                    |                                        |
|     |                            | Spiroxamine             |                                                                                    | 5-50 µg/kg                             |
|     |                            | Sulfosulfuron           |                                                                                    | 5-50 µg/kg                             |
|     |                            | Tebufenozide            |                                                                                    | 5-50 µg/kg                             |
|     |                            | Terbutylazine           |                                                                                    | 5-50 µg/kg                             |
|     |                            | Tetramethrin            |                                                                                    | 5-50 µg/kg                             |
|     |                            | Thifensulfuron-methyl   |                                                                                    | 5-50 µg/kg                             |
|     |                            | Triadimenol             |                                                                                    | 5-50 µg/kg                             |
|     |                            | Triasulfuron            | LI-00.019-1<br>Version Number-1<br>Issue Date- 2017<br>QUECHERS LC and GC<br>MS/MS | 5-50 µg/kg                             |
|     |                            | Tricyclazole            |                                                                                    | 5-50 µg/kg                             |
|     |                            | Triflumuron             |                                                                                    | 5-50 µg/kg                             |
|     |                            | Tritosulfuron           |                                                                                    | 5-50 µg/kg                             |
|     |                            | Acrinathrin             |                                                                                    | 5-50 µg/kg                             |
|     |                            | Diuron                  |                                                                                    | 5-50 µg/kg                             |
|     |                            | Bifenthrin              |                                                                                    | 5-50 µg/kg                             |
|     |                            | Metobromuron            |                                                                                    | 5-50 µg/kg                             |
|     |                            | Resmethrin              |                                                                                    | 5-50 µg/kg                             |
|     |                            | Tefluthrin              |                                                                                    | 5-50 µg/kg                             |
|     |                            | Alachlor                |                                                                                    | 5-50 µg/kg                             |
|     |                            | Beflubutamid            |                                                                                    | 5-50 µg/kg                             |
|     |                            | Bitertanol              |                                                                                    | 5-50 µg/kg                             |
|     |                            | Bixafen                 |                                                                                    | 5-50 µg/kg                             |
|     |                            | Bupirimate              |                                                                                    | 5-50 µg/kg                             |
|     |                            | Buprofezin              |                                                                                    | 5-50 µg/kg                             |
|     |                            | Carbaryl                |                                                                                    | 5-50 µg/kg                             |
|     |                            | Cymoxanil               |                                                                                    | 5-50 µg/kg                             |
|     |                            | Dimethomorph            | LI-00.019-1<br>Version Number-1<br>Issue Date- 2017<br>QUECHERS LC and GC<br>MS/MS | 5-50 µg/kg                             |
|     |                            | Ethofenprox             |                                                                                    | 5-50 µg/kg                             |
|     |                            | Famoxadone              |                                                                                    | 5-50 µg/kg                             |
|     |                            | Fenamidone              |                                                                                    | 5-50 µg/kg                             |
|     |                            | Fenamiphos sulfon       |                                                                                    | 5-50 µg/kg                             |
|     |                            | Fenamiphos sulfoxid     |                                                                                    | 5-50 µg/kg                             |
|     |                            | Fenpyroximate           |                                                                                    | 5-50 µg/kg                             |
|     |                            | Fensulfothion oxon      |                                                                                    | 5-50 µg/kg                             |
|     |                            | Fensulfothion sulfon    |                                                                                    | 5-50 µg/kg                             |

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**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 82 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed | Test Method Specification against which tests are performed                        | Range of Testing / Limits of Detection |
|-----|----------------------------|-------------------------|------------------------------------------------------------------------------------|----------------------------------------|
|     |                            | Flonicamid              |                                                                                    | 5-50 µg/kg                             |
|     |                            | Fluazifop-P-butyl       |                                                                                    | 5-50 µg/kg                             |
|     |                            | Hexythiazox             |                                                                                    | 5-50 µg/kg                             |
|     |                            | Isoprothiolane          |                                                                                    | 5-50 µg/kg                             |
|     |                            | Isoxaben                |                                                                                    | 5-50 µg/kg                             |
|     |                            | Mandipropamid           |                                                                                    | 5-50 µg/kg                             |
|     |                            | Methiocarb sulfon       |                                                                                    | 5-50 µg/kg                             |
|     |                            | Methiocarb sulfoxide    |                                                                                    | 5-50 µg/kg                             |
|     |                            | Methoxyfenozone         | LI-00.019-1<br>Version Number-1<br>Issue Date- 2017<br>QUECHERS LC and GC<br>MS/MS | 5-50 µg/kg                             |
|     |                            | Myclobutanil            |                                                                                    | 5-50 µg/kg                             |
|     |                            | Oxadiazon               |                                                                                    | 5-50 µg/kg                             |
|     |                            | Pendimethalin           |                                                                                    | 5-50 µg/kg                             |
|     |                            | Propargite              |                                                                                    | 5-50 µg/kg                             |
|     |                            | Pyriproxyfen            |                                                                                    | 5-50 µg/kg                             |
|     |                            | Rotenone                |                                                                                    | 5-50 µg/kg                             |
|     |                            | Spirodiclofen           |                                                                                    | 5-50 µg/kg                             |
|     |                            | Thiamethoxam            |                                                                                    | 5-50 µg/kg                             |
|     |                            | Triadimefon             |                                                                                    | 5-50 µg/kg                             |
|     |                            | Tri-allate              |                                                                                    | 5-50 µg/kg                             |
|     |                            | Triflumizole            |                                                                                    | 5-50 µg/kg                             |
|     |                            | Butachlor               |                                                                                    | 5-50 µg/kg                             |
|     |                            | Carbofuran              |                                                                                    | 5-50 µg/kg                             |
|     |                            | Carboxin                |                                                                                    | 5-50 µg/kg                             |
|     |                            | Clomazone               |                                                                                    | 5-50 µg/kg                             |
|     |                            | Cloquintocet-mexyl      |                                                                                    | 5-50 µg/kg                             |
|     |                            | Dimethenamid            |                                                                                    | 5-50 µg/kg                             |
|     |                            | Dinotefuran             | LI-00.019-1<br>Version Number-1<br>Issue Date- 2017<br>QUECHERS LC and GC<br>MS/MS | 5-50 µg/kg                             |
|     |                            | Disulfoton-sulfon       |                                                                                    | 5-50 µg/kg                             |
|     |                            | Ethiprole               |                                                                                    | 5-50 µg/kg                             |
|     |                            | Fenpropidin             |                                                                                    | 5-50 µg/kg                             |
|     |                            | Fluxastrobin            |                                                                                    | 5-50 µg/kg                             |
|     |                            | Flutolanil              |                                                                                    | 5-50 µg/kg                             |
|     |                            | Fuberidazole            |                                                                                    | 5-50 µg/kg                             |
|     |                            | Haloxypyr-ethyl         |                                                                                    | 5-50 µg/kg                             |
|     |                            | Haloxypyr-methyl        |                                                                                    | 5-50 µg/kg                             |

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**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 83 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed             | Test Method Specification against which tests are performed                        | Range of Testing / Limits of Detection |
|-----|----------------------------|-------------------------------------|------------------------------------------------------------------------------------|----------------------------------------|
|     |                            | Isoxadifen-ethyl                    |                                                                                    | 5-50 µg/kg                             |
|     |                            | Mefenpyr-diethyl                    |                                                                                    | 5-50 µg/kg                             |
|     |                            | Mepanipyrim                         |                                                                                    | 5-50 µg/kg                             |
|     |                            | Molinate                            |                                                                                    | 5-50 µg/kg                             |
|     |                            | Picolinafen                         |                                                                                    | 5-50 µg/kg                             |
|     |                            | Propanil                            |                                                                                    | 5-50 µg/kg                             |
|     |                            | Zoxamide                            |                                                                                    | 5-50 µg/kg                             |
|     |                            | Carbofuran-3-OH                     |                                                                                    | 5-50 µg/kg                             |
|     |                            | Diclofop-methyl                     | LI-00.019-1<br>Version Number-1<br>Issue Date- 2017<br>QUECHERS LC and GC<br>MS/MS | 5-50 µg/kg                             |
|     |                            | Cinidon-ethyl                       |                                                                                    | 5-50 µg/kg                             |
|     |                            | Clodinafop                          |                                                                                    | 5-50 µg/kg                             |
|     |                            | Fenoxaprop-ethyl                    |                                                                                    | 5-50 µg/kg                             |
|     |                            | 2,4-D                               |                                                                                    | 5-50 µg/kg                             |
|     |                            | MCPA                                |                                                                                    | 5-50 µg/kg                             |
|     |                            | MCPB                                |                                                                                    | 5-50 µg/kg                             |
|     |                            | Lefenuron                           |                                                                                    | 5-50 µg/kg                             |
|     |                            | Anilophos                           |                                                                                    | 5-50 µg/kg                             |
|     |                            | Carpropamid                         |                                                                                    | 5-50 µg/kg                             |
|     |                            | Chlorfenvinphos                     |                                                                                    | 5-50 µg/kg                             |
|     |                            | Clodinofof propanyl                 |                                                                                    | 5-50 µg/kg                             |
|     |                            | Cyhalofop-butyl                     |                                                                                    | 5-50 µg/kg                             |
|     |                            | Metalaxyl                           |                                                                                    | 5-50 µg/kg                             |
|     |                            | Pyrethrin (sum of Pyrethrin I & II) |                                                                                    | 5-50 µg/kg                             |
|     |                            | Thiocloprid                         |                                                                                    | 5-50 µg/kg                             |
|     |                            | Thiometon                           |                                                                                    | 5-50 µg/kg                             |
|     |                            | Chlorimuron ethyl                   |                                                                                    | 5-50 µg/kg                             |
|     |                            | Tridemorph                          | LI-00.019-1<br>Version Number-1<br>Issue Date- 2017<br>QUECHERS LC and GC<br>MS/MS | 5-50 µg/kg                             |
|     |                            | Pyrazosulfuron Ethyl                |                                                                                    | 5-50 µg/kg                             |
|     |                            | HCH-alpha isomer                    |                                                                                    | 5-50 µg/kg                             |
|     |                            | HCH-beta isomer                     |                                                                                    | 5-50 µg/kg                             |
|     |                            | HCH-gamma isomer (Lindane)          |                                                                                    | 5-50 µg/kg                             |
|     |                            | HCH-delta isomer                    |                                                                                    | 5-50 µg/kg                             |
|     |                            | Heptachlor                          |                                                                                    | 5-50 µg/kg                             |

**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
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**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 84 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed       | Test Method Specification against which tests are performed                     | Range of Testing / Limits of Detection |
|-----|----------------------------|-------------------------------|---------------------------------------------------------------------------------|----------------------------------------|
|     |                            | Aldrin                        |                                                                                 | 5-50 µg/kg                             |
|     |                            | Heptachlor exo-epoxide        |                                                                                 | 5-50 µg/kg                             |
|     |                            | Heptachlor endo-epoxide       |                                                                                 | 5-50 µg/kg                             |
|     |                            | Chlordane                     |                                                                                 | 5-50 µg/kg                             |
|     |                            | DDE-o,p'                      |                                                                                 | 5-50 µg/kg                             |
|     |                            | Chlordane-cis (alpha)         |                                                                                 | 5-50 µg/kg                             |
|     |                            | Chlordane-trans (gamma)       |                                                                                 | 5-50 µg/kg                             |
|     |                            | DDE-p,p'                      |                                                                                 | 5-50 µg/kg                             |
|     |                            | Dieldrin                      |                                                                                 | 5-50 µg/kg                             |
|     |                            | DDD-o,p'                      |                                                                                 | 5-50 µg/kg                             |
|     |                            | DDD-p,p'                      | LI-00.019-1<br>Version Number-1<br>Issue Date- 2017<br>QUECHERS LC and GC MS/MS | 5-50 µg/kg                             |
|     |                            | DDT-o,p'                      |                                                                                 | 5-50 µg/kg                             |
|     |                            | DDT-p,p'                      |                                                                                 | 5-50 µg/kg                             |
|     |                            | DDT Total                     |                                                                                 | 5-50 µg/kg                             |
|     |                            | Trichlorfon                   |                                                                                 | 5-50 µg/kg                             |
|     |                            | Trifluralin                   |                                                                                 | 5-50 µg/kg                             |
|     |                            | Iprobenfos (Kitazin)          |                                                                                 | 5-50 µg/kg                             |
|     |                            | Fenitrothion                  |                                                                                 | 5-50 µg/kg                             |
|     |                            | Oxyfluorfen                   |                                                                                 | 5-50 µg/kg                             |
|     |                            | Iprodione                     |                                                                                 | 5-50 µg/kg                             |
|     |                            | Cypermethrin (sum of isomers) |                                                                                 | 5-50 µg/kg                             |
|     |                            | Deltamethrin/ Decamethrin     |                                                                                 | 5-50 µg/kg                             |
|     |                            | Prothiophos                   |                                                                                 | 5-50 µg/kg                             |
|     |                            | Bromophos-methyl              |                                                                                 | 5-50 µg/kg                             |
|     |                            | Benomyl as Carbendazim        |                                                                                 | 5-50 µg/kg                             |
|     |                            | Benfuracarb                   |                                                                                 | 5-50 µg/kg                             |
|     |                            | carbosulfan                   |                                                                                 | 5-50 µg/kg                             |

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**Certificate Number** TC-5718

**Page 85 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test                                                                                                                      | Specific Test Performed     | Test Method Specification against which tests are performed                     | Range of Testing / Limits of Detection                                                        |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
|     |                                                                                                                                                 | Fenvelarate                 |                                                                                 | 5-50 µg/kg                                                                                    |
|     |                                                                                                                                                 | ENDOSULFAN                  | LI-00.019-1<br>Version Number-1<br>Issue Date- 2017<br>QUECHERS LC and GC MS/MS | 5-50 µg/kg                                                                                    |
|     |                                                                                                                                                 | ENDRIN                      |                                                                                 | 5-50 µg/kg                                                                                    |
|     |                                                                                                                                                 | HCH, EPSILON                |                                                                                 | 5-50 µg/kg                                                                                    |
|     |                                                                                                                                                 | HEXACHLOROBENZE NE (HCB)    |                                                                                 | 5-50 µg/kg                                                                                    |
|     |                                                                                                                                                 | MIREX                       |                                                                                 | 5-50 µg/kg                                                                                    |
|     |                                                                                                                                                 | Isodrin                     |                                                                                 | 5-50 µg/kg                                                                                    |
|     |                                                                                                                                                 | Methoxychlor                |                                                                                 | 5-50 µg/kg                                                                                    |
|     |                                                                                                                                                 | Dicofol                     |                                                                                 | 5-50 µg/kg                                                                                    |
|     |                                                                                                                                                 | Demeton-S-methyl            |                                                                                 | 5-50 µg/kg                                                                                    |
|     |                                                                                                                                                 | Methacrifos                 |                                                                                 | 5-50 µg/kg                                                                                    |
|     |                                                                                                                                                 | Formothion                  |                                                                                 | 5-50 µg/kg                                                                                    |
|     |                                                                                                                                                 | PARATHION (parathion ethyl) |                                                                                 | 5-50 µg/kg                                                                                    |
|     |                                                                                                                                                 | Parathion-methyl            |                                                                                 | 5-50 µg/kg                                                                                    |
|     |                                                                                                                                                 | Etrimfos                    |                                                                                 | 5-50 µg/kg                                                                                    |
|     |                                                                                                                                                 | Permethrin                  |                                                                                 | 5-50 µg/kg                                                                                    |
| 19. | <b>Residues in Fruits and Vegetable products<br/>Milk and Dairy Products<br/>Liquid Milk<br/>Cereal and cereal by Products<br/>Infant Foods</b> | Paraquat Dichloride         | SOP-MCLCHC-118<br>LCMSMS<br>Version Number-04<br>Issue Date-15.05.2017          | 0.02-0.10 mg/kg<br>0.001-0.100mg/kg<br>0.001-0.100mg/kg<br>0.02-0.10 mg/kg<br>0.01-0.10 mg/kg |
| 20. | <b>Fruits and Fruit Products<br/>Vegetable &amp; Vegetable Products</b>                                                                         | Patulin                     | LI-00.219 LC-MS/MS<br>Issue Date: February 2011                                 | 5.0µg/Kg-100µg/Kg                                                                             |
|     |                                                                                                                                                 | Nitrite                     | LI-SGRL-99.026<br>Spectrophotometer<br>Issue date: 22.05.2017                   | 1.2-50 mg/kg                                                                                  |

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**Certificate Number** TC-5718

**Page 86 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed                                                                                   | Test Method Specification against which tests are performed                                                     | Range of Testing / Limits of Detection                                                                                                                                      |
|-----|----------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |                            | Nitrate                                                                                                   | Version : 06                                                                                                    |                                                                                                                                                                             |
|     |                            |                                                                                                           | LI-SGRL-99.026<br>HPLC<br>Issue date: 22.05.2017<br>Version : 06                                                | 1.2-600 mg/kg                                                                                                                                                               |
|     |                            | Arsenic<br>Lead<br>Cadmium<br>Mercury<br>Aluminium<br>Molybdenum<br>Selenium<br>Tin<br>Chromium<br>Cobalt | LI-00.848-2<br>ICP MS<br>( EN 13805:2013, EN 15763:2009 & AOAC2011.19)<br>Issue date : April 2013<br>Version-02 | 0.007- 3 mg/kg<br>0.007- 2 mg/kg<br>0.007-2 mg/kg<br>0.002-1 mg/kg<br>0.2-100 mg/kg<br>0.007-2 mg/kg<br>0.007-10 mg/kg<br>0.02-20 mg/kg<br>0.007-20 mg/kg<br>0.007-20 mg/kg |
|     |                            | Hypericine                                                                                                | LI-SOP-MCLCHC-55 by HPLC<br>(J. AOAC 2002)<br>Issue date:15.09.2015<br>Version: 03                              | 0.38-1.5 mg/kg                                                                                                                                                              |
|     |                            | Safrole                                                                                                   | LI-SOP-MCLCHC-56 by HPLC(AOAC 969.13)<br>Issue date:15.09.2015<br>Version: 03                                   | 3-15 mg/kg                                                                                                                                                                  |
|     |                            | Isosafrole                                                                                                | LI-SOP-MCLCHC-56 by HPLC(AOAC 969.13)<br>Issue date:15.09.2015<br>Version: 03                                   | 3-15 mg/kg                                                                                                                                                                  |
|     |                            | Cyanide                                                                                                   | LI-00.576-2 by Spectrophotometer<br>Colorimetric Issue date : December 2010<br>Version -2                       | 0.5-10 mg/kg                                                                                                                                                                |
|     |                            | Aflatoxin B1                                                                                              | LI-SGRL-99.033                                                                                                  | B1- 0.1-1000 µg/kg                                                                                                                                                          |

**Rini Narayan**  
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Program Director

**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 87 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed                                                                                                                                                                                                                                                                                                                       | Test Method Specification against which tests are performed                               | Range of Testing / Limits of Detection                                                                                                                                                                                                                                                                         |
|-----|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |                            | Aflatoxin G1<br>Aflatoxin B2,<br>Aflatoxin G2<br>Aflatoxin B+G                                                                                                                                                                                                                                                                                | (AOAC 991.31)<br>Issue date:04.05.2017<br>Version: 06<br>immunoaffinity clean-up and UPLC | G1- 0.10-100 µg/kg,<br>B2-0.04-100 µg/kg<br>G2 –0.04-100 µg/kg,<br>B+G-0.1-1000 µg/kg                                                                                                                                                                                                                          |
|     |                            | Melamine                                                                                                                                                                                                                                                                                                                                      | LI-00.176-4<br>LC-MS/MS<br>Issue date: April 2009<br>Version 04                           | 0.05-100mg/kg                                                                                                                                                                                                                                                                                                  |
|     |                            | 3- and 15-acetyldeoxynivalenol<br>(Total) Aflatoxin B1<br>Aflatoxin B2<br>Aflatoxin G1<br>Aflatoxin G2<br>Aflatoxin M1<br>Aflatoxins B+G (Total)<br>Deoxynivalenol (DON or<br>FUMONISIN B1<br>FUMONISIN B2<br>FUMONISINS (Total<br>B1+B2)<br>HT-2 TOXIN<br>NIVALENOL<br>OCHRATOXIN A<br>T-2 & HT-2 Toxins (Total)<br>T-2 TOXIN<br>Zearalenone | LI-00.185 (LC-MSMS)<br>LC-MS/MS<br>Issue Date: July 2013                                  | 100-1000 µg/kg<br>0.025-1000 µg/kg<br>0.025-1000 µg/kg<br>0.025-100 µg/kg<br>0.025-100 µg/kg<br>0.025-100 µg/kg<br>0.10-1000 µg/kg<br>50-1000 µg/kg<br>50-1000 µg/kg<br>50-1000 µg/kg<br>100-2000 µg/kg<br>25-2000 µg/kg<br>100-1000 µg/kg<br>0.5-100 µg/kg<br>50-1000 µg/kg<br>25-1000 µg/kg<br>20-1000 µg/kg |
| 21. | Honey and Honey Products   | Chloramphenicol                                                                                                                                                                                                                                                                                                                               | LI-00.170-1 ELISA Kit<br>Issue Date: July 2013<br>Version 01                              | 0.1-2 mcg/kg                                                                                                                                                                                                                                                                                                   |
|     |                            | Arsenic<br>Lead<br>Cadmium                                                                                                                                                                                                                                                                                                                    | LI-00.848-2<br>ICP MS<br>( EN 13805:2013, EN                                              | 0.010-2 mg/kg<br>0.010-2 mg/kg<br>0.010-2 mg/kg                                                                                                                                                                                                                                                                |

**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 88 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed                                                                                                                                                                                                                                                                                                              | Test Method Specification against which tests are performed                                               | Range of Testing / Limits of Detection                                                                                                                                                                                                                                                                          |
|-----|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |                            | Mercury<br>Aluminium<br>Molybdenum<br>Selenium<br>Tin<br>Chromium<br>Cobalt                                                                                                                                                                                                                                                          | 15763:2009 & AOAC2011.19)<br><br>Issue date : April 2013<br>Version-02                                    | 0.002-0.1 mg/kg<br>0.2-60 mg/kg<br>0.02 -2 mg/kg<br>0.02 -4 mg/kg<br>0.02-10 mg/kg<br>0.007-5 mg/kg<br>0.007-1 mg/kg                                                                                                                                                                                            |
|     |                            | Aflatoxin B1<br>Aflatoxin G1<br>Aflatoxin B2<br>Aflatoxin G2<br>Total Aflatoxin (B +G)                                                                                                                                                                                                                                               | LI-SGRL-99.033 ( AOAC 991.31)<br>Issue date:04.05.2017<br>Version: 06<br>immunoaffinity clean-up and UPLC | B1- 0.1-1000 µg/kg<br>G1- 0.10-100 µg/kg,<br>B2-0.04-100 µg/kg<br>G2 –0.04-100 µg/kg,<br>B+G-0.1-1000                                                                                                                                                                                                           |
|     |                            | 3- and 15-acetyldeoxynivalenol (Total) Aflatoxin B1<br>Aflatoxin B2<br>Aflatoxin G1<br>Aflatoxin G2<br>Aflatoxin M1<br>Aflatoxins B+G (Total)<br>Deoxynivalenol (DON or FUMONISIN B1<br>FUMONISIN B2<br>FUMONISINS (Total B1+B2)<br>HT-2 TOXIN<br>NIVALENOL<br>OCHRATOXIN A<br>T-2 & HT-2 Toxins (Total)<br>T-2 TOXIN<br>Zearalenone | LI-00.185 (LC-MSMS) LC-MS/MS<br>Issue Date: July 2013                                                     | 100-1000 µg/kg<br>0.025-1000 µg/kg<br>0.025-1000 µg/kg<br>0.025-100 µg/kg<br>0.025-100 µg/kg<br>0.025-100 µg/kg<br>0.10 -1000 µg/kg<br>50-1000 µg/kg<br>50-1000 µg/kg<br>50-1000 µg/kg<br>100-2000 µg/kg<br>25-2000 µg/kg<br>100-1000 µg/kg<br>0.5-100 µg/kg<br>50-1000 µg/kg<br>25-1000 µg/kg<br>20-1000 µg/kg |
|     |                            | Cyanide                                                                                                                                                                                                                                                                                                                              | LI-00.576-2 by Spectrophotometer<br>Colorimetric Issue date :                                             | 0.5-10 mg/kg                                                                                                                                                                                                                                                                                                    |



**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 89 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test                                                                       | Specific Test Performed                                                                                                                                                                                                                                                                                                                          | Test Method Specification against which tests are performed                                               | Range of Testing / Limits of Detection                                                                                                                                                                                                                                                                          |
|-----|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |                                                                                                  |                                                                                                                                                                                                                                                                                                                                                  | December 2010<br>Version -2                                                                               |                                                                                                                                                                                                                                                                                                                 |
| 22. | <b>Pet Foods<br/>Animal Feeds</b>                                                                | Aflatoxin B1<br>Aflatoxin G1<br>Aflatoxin B2,<br>Aflatoxin G2<br>Total Aflatoxin (B +G)                                                                                                                                                                                                                                                          | LI-SGRL-99.033 ( AOAC 991.31)<br>Issue date:04.05.2017<br>Version: 06<br>immunoaffinity clean-up and UPLC | B1- 0.1-1000 µg/kg<br>G1- 0.10-100 µg/kg,<br>B2-0.04-100 µg/kg<br>G2 –0.04-100 µg/kg,<br>B+G-0.1-1000 µg/kg                                                                                                                                                                                                     |
|     |                                                                                                  | 3- and 15-acetyldeoxynivalenol<br>(Total) Aflatoxin B1<br>Aflatoxin B2<br>Aflatoxin G1<br>Aflatoxin G2<br>Aflatoxin M1<br>Aflatoxins B+G (Total)<br>Deoxynivalenol (DON or<br>FUMONISIN B1<br>FUMONISIN B2<br>FUMONISINS<br>(Total B1+B2)<br>HT-2 TOXIN<br>NIVALENOL<br>OCHRATOXIN A<br>T-2 & HT-2 Toxins<br>(Total)<br>T-2 TOXIN<br>Zearalenone | LI-00.185 (LC-MSMS)<br>Mycotoxins in Foodstuffs by LC-MS/MS<br>Issue Date: July 2013                      | 100-1000 µg/kg<br>0.025-1000 µg/kg<br>0.025-1000 µg/kg<br>0.025-100 µg/kg<br>0.025-100 µg/kg<br>0.025-100 µg/kg<br>0.10 -1000 µg/kg<br>50-1000 µg/kg<br>50-1000 µg/kg<br>50-1000 µg/kg<br>100-2000 µg/kg<br>25-2000 µg/kg<br>100-1000 µg/kg<br>0.5-100 µg/kg<br>50-1000 µg/kg<br>25-1000 µg/kg<br>20-1000 µg/kg |
| 23. | <b>Tea and Tea Products (Tea Extracts, Tea Leafs, Instant Tea, Tea beverages, Vending Mixes)</b> | Melamine by LC MSMS                                                                                                                                                                                                                                                                                                                              | LI-00.176-4<br>LC-MS/MS<br>Issue date: April 2009<br>Version 04                                           | 0.05-100mg/kg                                                                                                                                                                                                                                                                                                   |
|     |                                                                                                  | Hypericine                                                                                                                                                                                                                                                                                                                                       | LI-SOP-MCLCHC-55 by HPLC                                                                                  | 0.38-15 mg/kg                                                                                                                                                                                                                                                                                                   |

**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 90 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed                                                                                                | Test Method Specification against which tests are performed                                                             | Range of Testing / Limits of Detection                                                                                                                                         |
|-----|----------------------------|------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |                            |                                                                                                                        | (J. AOAC 2002)<br>Issue date:15.09.2015<br>Version: 03                                                                  |                                                                                                                                                                                |
|     |                            | Safrole                                                                                                                | LI-SOP-MCLCHC-56 by HPLC(AOAC 969.13)<br>Issue date:15.09.2015<br>Version: 03                                           | 3-15 mg/kg                                                                                                                                                                     |
|     |                            | Isosafrole                                                                                                             | LI-SOP-MCLCHC-56 by HPLC(AOAC 969.13)<br>Issue date:15.09.2015<br>Version: 03                                           | 3-15 mg/kg                                                                                                                                                                     |
|     |                            | Cyanide                                                                                                                | LI-00.576-2 by Spectrophotometer Colorimetric<br>Issue date:December 2010<br>Version -2                                 | 0.5-5.0 mg/kg                                                                                                                                                                  |
|     |                            | Arsenic<br>Lead<br>Cadmium<br>Mercury<br>Aluminium<br>Molybdenum<br>Selenium<br>Tin<br>Chromium<br>Cobalt              | LI-00.848-2<br>ICP MS<br>( EN 13805:2013, EN 15763:2009 & AOAC2011.19)<br><br>Issue date : April 2013<br><br>Version-02 | 0.007-20 mg/kg<br>0.007-20 mg/kg<br>0.007-20 mg/kg<br>0.002-10 mg/kg<br>0.2-100 mg/kg<br>0.007-20 mg/kg<br>0.007-20 mg/kg<br>0.02-20 mg/kg<br>0.007-20 mg/kg<br>0.007-20 mg/kg |
|     |                            | Glyphosate                                                                                                             | SOP-MCLCHC-WI-119<br>Issued date: 15.05.2013<br>Version:02                                                              | 0.500-5.00mg/kg                                                                                                                                                                |
|     |                            | 3- and 15-acetyldeoxynivalenol<br>(Total) Aflatoxin B1<br>Aflatoxin B2<br>Aflatoxin G1<br>Aflatoxin G2<br>Aflatoxin M1 | LI-00.185 (LC-MSMS) LC-MS/MS<br>Issue Date: July 2013                                                                   | 100-1000 µg/kg<br>0.025-1000 µg/kg<br>0.025-1000 µg/kg<br>0.025-100 µg/kg<br>0.025-100 µg/kg<br>0.025-100 µg/kg<br>0.10-1000 µg/kg                                             |

**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 91 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test   | Specific Test Performed                                                                                                                                                                                          | Test Method Specification against which tests are performed                                               | Range of Testing / Limits of Detection                                                                                                                                   |
|-----|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |                              | Aflatoxins B+G (Total)<br>Deoxynivalenol (DON or<br>FUMONISIN B1<br>FUMONISIN B2<br>FUMONISINS (Total B1+B2)<br>HT-2 TOXIN<br>NIVALENOL<br>OCHRATOXIN A<br>T-2 & HT-2 Toxins (Total)<br>T-2 TOXIN<br>Zearalenone |                                                                                                           | 50-1000 µg/kg<br>50-1000 µg/kg<br>50-1000 µg/kg<br>100-2000 µg/kg<br>25-2000 µg/kg<br>100-1000 µg/kg<br>0.5-100 µg/kg<br>50-1000 µg/kg<br>25-1000 µg/kg<br>20-1000 µg/kg |
|     |                              | Aflatoxin B1<br>Aflatoxin G1<br>Aflatoxin B2,<br>Aflatoxin G2<br>Total Aflatoxin (B +G)                                                                                                                          | LI-SGRL-99.033 ( AOAC 991.31)<br>Issue date:04.05.2017<br>Version: 06<br>immunoaffinity clean-up and UPLC | B1- 0.1-100 µg/kg<br>G1- 0.10-100 µg/kg,<br>B2-0.04-100 µg/kg<br>G2 –0.04-100 µg/kg,<br>B+G-0.1-100 µg/kg                                                                |
| 24. | Herbs, Spices and Condiments | Bromide                                                                                                                                                                                                          | LI-00.122-1 by GC-ECD<br>Gas Chromatography<br>Version 01, Issue Date-<br>March 2008                      | 5 -30mg/kg                                                                                                                                                               |
|     |                              | Ethylene Oxide (Total)                                                                                                                                                                                           | LI-00.032 by GC-ECD<br>Issue date : January 1990                                                          | 0.1-300 mg/kg                                                                                                                                                            |
|     |                              | Hypericine                                                                                                                                                                                                       | LI-SOP-MCLCHC-55 by HPLC<br>(J. AOAC 2002)<br>Issue date:15.09.2015<br>version 03                         | 0.38 -2.0mg/kg                                                                                                                                                           |
|     |                              | Safrole                                                                                                                                                                                                          | LI-SOP-MCLCHC-56 by HPLC(AOAC 969.13)<br>Issue date:15.09.2015<br>Version: 03                             | 3-1200 mg/kg                                                                                                                                                             |
|     |                              | Isosafrole                                                                                                                                                                                                       | LI-SOP-MCLCHC-56 by                                                                                       | 3-15 mg/kg                                                                                                                                                               |

**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 92 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed                                                                                                                                                                                                           | Test Method Specification against which tests are performed                                               | Range of Testing / Limits of Detection                                                                                                                                                 |
|-----|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |                            |                                                                                                                                                                                                                                   | HPLC(AOAC 969.13)<br>Issue date:15.09.2015<br>Version: 03                                                 |                                                                                                                                                                                        |
|     |                            | Cyanide                                                                                                                                                                                                                           | LI-00.576-2 by Spectrophotometer<br>Colorimetric Issue date : December 2010<br>Version -2                 | 0.5-10 mg/kg                                                                                                                                                                           |
|     |                            | Sudan I<br>Sudan II<br>Sudan III<br>Sudan IV<br>Sudan Red 7B<br>Sudan Red G<br>Sudan Orange G<br>Sudan Black B<br>Para Red<br>Butter Yellow or Methyl Yellow<br>Toluidine Red<br>Oil Orange SS<br>Solvent Yellow 3 or Fast Garnet | LI-00.183<br>Issue date:March 2009                                                                        | 5-100µg/kg<br>5-100µg/kg<br>5-100µg/kg<br>10-100µg/kg<br>5-100µg/kg<br>10-100µg/kg<br>5-100µg/kg<br>10-100µg/kg<br>10-100µg/kg<br>5-100µg/kg<br>5-100µg/kg<br>5-100µg/kg<br>5-100µg/kg |
|     |                            | Aflatoxin B1<br>Aflatoxin G1<br>Aflatoxin B2<br>Aflatoxin G2<br>Total Aflatoxin (B +G)                                                                                                                                            | LI-SGRL-99.033 ( AOAC 991.31)<br>Issue date:04.05.2017<br>Version: 06<br>immunoaffinity clean-up and UPLC | B1- 0.1-1000 µg/kg<br>G1- 0.10-100 µg/kg,<br>B2-0.04-100 µg/kg<br>G2 –0.04-100 µg/kg,<br>B+G-0.1-1000 µg/kg                                                                            |
|     |                            | 3- and 15-acetyldeoxynivalenol<br>Aflatoxin B1<br>Aflatoxin B2<br>Aflatoxin G1<br>Aflatoxin G2<br>Aflatoxin M1                                                                                                                    | LI-00.185 (LC-MSMS) LC-MS/MS<br>Issue Date: July 2013                                                     | 100-1000 µg/kg<br>1.00-1000 µg/kg<br>1.00-1000 µg/kg<br>1.00-100 µg/kg<br>1.00-100 µg/kg<br>1.00-100 µg/kg                                                                             |

**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 93 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test                         | Specific Test Performed                                                                                                                                                                                          | Test Method Specification against which tests are performed                                                                         | Range of Testing / Limits of Detection                                                                                                                                                       |
|-----|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |                                                    | Aflatoxins B+G (Total)<br>Deoxynivalenol (DON or<br>FUMONISIN B1<br>FUMONISIN B2<br>FUMONISINS (Total B1+B2)<br>HT-2 TOXIN<br>NIVALENOL<br>OCHRATOXIN A<br>T-2 & HT-2 Toxins (Total)<br>T-2 TOXIN<br>Zearalenone |                                                                                                                                     | 0.10 -1000 µg/kg<br>50-1000 µg/kg<br>50-1000 µg/kg<br>50-1000 µg/kg<br>100-2000 µg/kg<br>25-2000 µg/kg<br>100-1000 µg/kg<br>0.5-100 µg/kg<br>50-1000 µg/kg<br>25-1000 µg/kg<br>20-1000 µg/kg |
|     |                                                    | Arsenic<br>Lead<br>Cadmium<br>Mercury<br>Aluminium<br>Molybdenum<br>Selenium<br>Tin<br>Chromium<br>Cobalt                                                                                                        | LI-00.848-2<br>Trace Metals by ICP MS<br>( EN 13805:2013, EN 15763:2009 & AOAC2011.19)<br><br>Issue date : April 2013<br>Version-02 | 0.007-10 mg/kg<br>0.007-20 mg/kg<br>0.007-10 mg/kg<br>0.002-10 mg/kg<br>10 -1000 mg/kg<br>0.007-20 mg/kg<br>0.007-20 mg/kg<br>0.02-20 mg/kg<br>0.007-20 mg/kg<br>0.007-20 mg/kg              |
|     |                                                    | Melamine                                                                                                                                                                                                         | LI-00.176-4<br>LC-MS/MS<br>Issue date: April 2009<br>Version 04                                                                     | 0.05-100mg/kg                                                                                                                                                                                |
| 25. | Pesticide Residues in Herbs, Spices and Condiments | carbaryl                                                                                                                                                                                                         | LI-00.019-1                                                                                                                         | 0.05-0.200 mg/kg                                                                                                                                                                             |
|     |                                                    | Dicofol                                                                                                                                                                                                          | Version Number-1                                                                                                                    | 0.05-0.200 mg/kg                                                                                                                                                                             |
|     |                                                    | dimethoate                                                                                                                                                                                                       | Issue Date- 2017                                                                                                                    | 0.05-0.200 mg/kg                                                                                                                                                                             |
|     |                                                    | Endosulfan                                                                                                                                                                                                       | QUECHERS LC and GC MS/MS                                                                                                            | 0.05-0.200 mg/kg                                                                                                                                                                             |
|     |                                                    | Endosulfan alpha                                                                                                                                                                                                 |                                                                                                                                     | 0.05-0.200 mg/kg                                                                                                                                                                             |
|     |                                                    | Endosulfan beta                                                                                                                                                                                                  |                                                                                                                                     | 0.05-0.200 mg/kg                                                                                                                                                                             |
|     |                                                    | Endosulfan sulphate                                                                                                                                                                                              |                                                                                                                                     | 0.05-0.200 mg/kg                                                                                                                                                                             |
|     |                                                    | Monocrotophos                                                                                                                                                                                                    |                                                                                                                                     | 0.05-0.200 mg/kg                                                                                                                                                                             |

**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 94 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test                | Specific Test Performed                                                                                  | Test Method Specification against which tests are performed                                                         | Range of Testing / Limits of Detection                                                                                                                                           |
|-----|-------------------------------------------|----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |                                           | Quinolphos                                                                                               |                                                                                                                     | 0.05-0.200 mg/kg                                                                                                                                                                 |
|     |                                           | Triazophos                                                                                               |                                                                                                                     | 0.05-0.200 mg/kg                                                                                                                                                                 |
|     |                                           | Dichlorobenzophenone (DCBP)                                                                              |                                                                                                                     | 0.05-0.200 mg/kg                                                                                                                                                                 |
|     |                                           | Formothion                                                                                               |                                                                                                                     |                                                                                                                                                                                  |
| 26. | Trace Metal Elements in Spices-Tastemaker | Arsenic<br>Lead<br>Cadmium<br>Mercury<br>Aluminum<br>Molybdenum<br>Selenium<br>Tin<br>Chromium<br>Cobalt | LI-00.848-2<br>ICP MS<br>( EN 13805:2013, EN 15763:2009 & AOAC2011.19)<br><br>Issue date : April 2013<br>Version-02 | 0.025-20 mg/kg<br>0.025-20 mg/kg<br>0.025-20 mg/kg<br>0.006-10 mg/kg<br>0.60-100 mg/kg<br>0.025-20 mg/kg<br>0.025-20 mg/kg<br>0.060-20 mg/kg<br>0.025-20 mg/kg<br>0.025-20 mg/kg |
| 27. | Juice, Sauce and Concentrates             | Hypericine                                                                                               | LI-SOP-MCLCHC-55 by HPLC<br>(J. AOAC 2002)<br>Issue date:15.09.2015<br>Version: 03                                  | 0.38-1.5 mg/kg                                                                                                                                                                   |
|     |                                           | Safrole                                                                                                  | LI-SOP-MCLCHC-56 by HPLC(AOAC 969.13)<br>Issue date:15.09.2015<br>Version: 03                                       | 3 -15mg/kg                                                                                                                                                                       |
|     |                                           | Isosafrole                                                                                               |                                                                                                                     |                                                                                                                                                                                  |
|     |                                           | Cyanide                                                                                                  | LI-00.576-2 by Spectrophotometer<br>Colorimetric Issue date : December 2010<br>Version -2                           | 0.5-10 mg/kg                                                                                                                                                                     |
|     |                                           | Bromide                                                                                                  | LI-00.122-1 by GC-ECD<br>Gas Chromatography<br>Version 01, Issue Date- March 2008                                   | 5-10 mg/kg                                                                                                                                                                       |

**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 95 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test      | Specific Test Performed                                                                                   | Test Method Specification against which tests are performed                                                     | Range of Testing / Limits of Detection                                                                                                                                     |
|-----|---------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |                                 | Ethylene Oxide (Total)                                                                                    | LI-00.032 by GC-ECD<br>Issue date ; January 1990                                                                | 0.1--2 mg/kg                                                                                                                                                               |
|     |                                 | Nitrite                                                                                                   | LI-SGRL-99.026<br>Spectrophotometer<br>Issue date: 22.05.2017<br>Version : 06                                   | 1.2—50 mg/kg                                                                                                                                                               |
|     |                                 | Nitrate                                                                                                   | LI-SGRL-99.026<br>HPLC<br>Issue date: 22.05.2017<br>Version : 06                                                | 1.2-100 mg/kg                                                                                                                                                              |
|     |                                 | Arsenic<br>Lead<br>Cadmium<br>Mercury<br>Aluminium<br>Molybdenum<br>Selenium<br>Tin<br>Chromium<br>Cobalt | LI-00.848-2<br>ICP MS<br>( EN 13805:2013, EN 15763:2009 & AOAC2011.19)<br>Issue date : April 2013<br>Version-02 | 0.007-2 mg/kg<br>0.007-2 mg/kg<br>0.007-2 mg/kg<br>0.002-0.1 mg/kg<br>0.2-30 mg/kg<br>0.007-20 mg/kg<br>0.007-20 mg/kg<br>0.02-15 mg/kg<br>0.007-20 mg/kg<br>0.007-1 mg/kg |
|     |                                 | Patulin                                                                                                   | LI-00.219 Patulin by LC-MS/MS<br>Issue Date: February 2011                                                      | 5.0µg/Kg-100µg/Kg                                                                                                                                                          |
|     |                                 | Melamine by LC MSMS                                                                                       | LI-00.176-4<br>LC-MS/MS<br>Issue date: April 2009<br>Version 04                                                 | 0.05-100mg/kg                                                                                                                                                              |
| 28. | <b>Sugar and Sugar Products</b> | Aflatoxin B1<br>Aflatoxin G1<br>Aflatoxin B2<br>Aflatoxin G2<br>Total Aflatoxin (B +G)                    | LI-SGRL-99.033 ( AOAC 991.31)<br>Issue date:04.05.2017<br>Version: 06<br>immunoaffinity clean-up and UPLC       | B1- 0.1-100 µg/kg<br>G1- 0.10-100 µg/kg,<br>B2-0.04-100 µg/kg<br>G2 –0.04-100 µg/kg,<br>B+G-0.1-100 µg/kg                                                                  |
|     |                                 | Hypericine                                                                                                | LI-SOP-MCLCHC-55 by HPLC                                                                                        | 0.38-1.5 mg/kg                                                                                                                                                             |

**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 96 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed                                                                                                                                                                                                                                                                                   | Test Method Specification against which tests are performed                                  | Range of Testing / Limits of Detection                                                                                                                                                                                                                             |
|-----|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |                            |                                                                                                                                                                                                                                                                                                           | (J. AOAC 2002)<br>Issue date:15.09.2015<br>Version: 03                                       |                                                                                                                                                                                                                                                                    |
|     |                            | Safrole                                                                                                                                                                                                                                                                                                   | LI-SOP-MCLCHC-56 by HPLC(AOAC 969.13)<br>Issue date:15.09.2015<br>Version: 03                | 3 -15mg/kg                                                                                                                                                                                                                                                         |
|     |                            | Cyanide                                                                                                                                                                                                                                                                                                   | LI-00.576-2 by Spectrophotometer<br>Colorimetric Issue date :<br>December 2010<br>Version -2 | 0.5-10 mg/kg                                                                                                                                                                                                                                                       |
|     |                            | Melamine                                                                                                                                                                                                                                                                                                  | LI-00.176-4<br>LC-MS/MS<br>Issue date: April 2009<br>Version 04                              | 0.050-10mg/kg                                                                                                                                                                                                                                                      |
|     |                            | Aflatoxin B1<br>Aflatoxin B2<br>Aflatoxin G1<br>Aflatoxin G2<br>Aflatoxin M1<br>Aflatoxins B+G (Total)<br>Deoxynivalenol (DON<br>or<br>FUMONISIN B1<br>FUMONISIN B2<br>FUMONISINS (Total<br>B1+B2)<br>HT-2 TOXIN<br>NIVALENOL<br>OCHRATOXIN A<br>T-2 & HT-2 Toxins<br>(Total)<br>T-2 TOXIN<br>Zearalenone | LI-00.185 (LC-MSMS) LC-<br>MS/MS<br>Issue Date: July 2013                                    | 1-1000 µg/kg<br>1-1000 µg/kg<br>1-100 µg/kg<br>1-100 µg/kg<br>1-100 µg/kg<br>4-1000 µg/kg<br>50-1000 µg/kg<br>50-1000 µg/kg<br>50-1000 µg/kg<br>100-2000 µg/kg<br>25-2000 µg/kg<br>50-1000 µg/kg<br>1-100 µg/kg<br>50-1000 µg/kg<br>25-1000 µg/kg<br>20-1000 µg/kg |

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**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 97 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test       | Specific Test Performed                                                                                                                            | Test Method Specification against which tests are performed                                                                     | Range of Testing / Limits of Detection                                                                                                                                                                                                 |
|-----|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |                                  |                                                                                                                                                    |                                                                                                                                 |                                                                                                                                                                                                                                        |
|     |                                  | Arsenic<br>Lead<br>Cadmium<br>Mercury<br>Aluminium<br>Molybdenum<br>Selenium<br>Tin<br>Chromium<br>Cobalt<br>Antimony<br>Boron<br>Silver<br>Nickel | LI-00.848-2<br>ICP MS<br>( EN 13805:2013, EN 15763:2009 & AOAC2011.19)<br><br>Issue date : April 2013<br>Version-02             | 0.010-1 mg/kg<br>0.009-2 mg/kg<br>0.009-1 mg/kg<br>0.002-0.1 mg/kg<br>0.2-60 mg/kg<br>0.02 -4 mg/kg<br>0.02 -5 mg/kg<br>0.02-10 mg/kg<br>0.007-5 mg/kg<br>0.007-1 mg/kg<br>0.05-2 mg/kg<br>0.4- 40mg/kg<br>0.05-1 mg/kg<br>0.1-5 mg/kg |
| 29. | <b>Beverages (Non Alcoholic)</b> | Melamine by LC-MSMS                                                                                                                                | LI-00.176-4 Issue date: April 2009 Version 04 LC-MS/MS                                                                          | 0.050-10mg/kg                                                                                                                                                                                                                          |
|     |                                  | Arsenic<br>Lead<br>Cadmium<br>Mercury<br>Aluminium<br>Molybdenum<br>Selenium<br>Tin                                                                | LI-00.848-2<br>Trace Metals by ICP MS<br>( EN 13805:2013, EN 15763:2009 & AOAC2011.19)<br>Issue date : April 2013<br>Version-02 | 0.007-20 mg/kg<br>0.007-20 mg/kg<br>0.007-20 mg/kg<br>0.002-10 mg/kg<br>0.2-1000 mg/kg<br>0.007-20 mg/kg<br>0.007-20 mg/kg<br>0.02-20 mg/kg                                                                                            |
|     |                                  | Aflatoxin B1<br>Aflatoxin B2<br>Aflatoxin G1<br>Aflatoxin G2<br>Aflatoxin M1<br>Aflatoxins B+G (Total)<br>Deoxynivalenol (DON)<br>FUMONISIN B1     | LI-00.185 (LC-MSMS) LC-MS/MS<br>Issue Date: July 2013                                                                           | 1-1000 µg/kg<br>1-1000 µg/kg<br>1-100 µg/kg<br>1-100 µg/kg<br>1-100 µg/kg<br>1-1000 µg/kg<br>50-1000 µg/kg<br>50-1000 µg/kg                                                                                                            |

**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 98 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test                                                | Specific Test Performed                                                                                                                      | Test Method Specification against which tests are performed                                                     | Range of Testing / Limits of Detection                                                                                                                               |
|-----|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |                                                                           | FUMONISIN B2<br>FUMONISINS (Total B1+B2)<br>HT-2 TOXIN<br>NIVALENOL<br>OCHRATOXIN A<br>T-2 & HT-2 Toxins (Total)<br>T-2 TOXIN<br>Zearalenone |                                                                                                                 | 50-1000 µg/kg<br>100-2000 µg/kg<br>25-2000 µg/kg<br>50-1000 µg/kg<br>1-100 µg/kg<br>50-1000 µg/kg<br>25-1000 µg/kg<br>20-1000 µg/kg                                  |
| II. | <b>RESIDUES IN WATER</b>                                                  |                                                                                                                                              |                                                                                                                 |                                                                                                                                                                      |
| 1.  | <b>Trace Metal Elements (Bore Well Water, Water Required for Process)</b> | Arsenic<br>Lead<br>Cadmium<br>Mercury<br>Aluminum<br>Molybdenum<br>Selenium<br>Tin<br>Chromium<br>Cobalt                                     | LI-00.848-2<br>ICP MS<br>( EN 13805:2013, EN 15763:2009 & AOAC2011.19)<br>Issue date : April 2013<br>Version-02 | 0.007-20 mg/L<br>0.007-20 mg/L<br>0.007-20 mg/L<br>0.002-10 mg/L<br>0.2-100 mg/L<br>0.007-20 mg/L<br>0.007-20 mg/L<br>0.02-20 mg/L<br>0.007-20 mg/L<br>0.007-20 mg/L |
|     |                                                                           | Nitrite                                                                                                                                      | LI-SGRL-99.026<br>Spectrophotometer<br>Issue date: 22.05.2017<br>Version : 06                                   | 0.1-20 mg/L                                                                                                                                                          |
|     |                                                                           | Nitrate                                                                                                                                      | LI-SGRL-99.026<br>HPLC<br>Issue date: 22.05.2017<br>Version : 06                                                | 0.1-20 mg/L                                                                                                                                                          |
| 2.  | <b>Metal Elements (Bore Well Water, Water Required for Process)</b>       | Sodium<br>Potassium<br>Calcium<br>Magnesium<br>Phosphorus<br>Iron                                                                            | MCLCHM-WI-52<br>Issue date- 08.11.2017<br>Version 01                                                            | 50 -20000 mg/L<br>50 -20000 mg/L<br>50 -20000 mg/L<br>20-5000 mg/L<br>50-15000 mg/L<br>5-500 mg/L                                                                    |

**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 99 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl.         | Product / Material of Test     | Specific Test Performed                                                                                                     | Test Method Specification against which tests are performed                                | Range of Testing / Limits of Detection                                                                                                                           |
|-------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             |                                | Copper<br>Manganese<br>Zinc                                                                                                 |                                                                                            | 1-500 mg/L<br>100-25000 µg/L<br>5-15000 mg/L                                                                                                                     |
| <b>III.</b> | <b>FOOD &amp; AGRICULTURE</b>  |                                                                                                                             |                                                                                            |                                                                                                                                                                  |
| <b>1.</b>   | <b>Milk and Dairy Products</b> | Sodium<br>Potassium<br>Calcium<br>Magnesium<br>Phosphorus<br>Iron<br>Copper<br>Manganese<br>Zinc                            | AOAC-2011.14<br>ICP OES<br>Issue date- October 2014                                        | 5 -2000mg/100g<br>5 -2000mg/100g<br>5 -2000mg/100g<br>2-500 mg/100g<br>5-1500 mg/100g<br>0.5-50 mg/100g<br>0.1-50 mg/100g<br>10-2500 µg/100g<br>0.5-1500 mg/100g |
|             |                                | Chloride                                                                                                                    | LI-00.580-3 by<br>Potentiometric (AOAC<br>986.26) Issue date- March<br>2010 Version 03     | 15-1500 mg/100g                                                                                                                                                  |
|             |                                | Cholesterol                                                                                                                 | LI-00.531-1 GLC-FID<br>(IDF standard 159:1992)<br>Issue date : February 2009<br>Version 01 | 0.05-60 mg/100g                                                                                                                                                  |
|             |                                | Fatty acids Profile<br>Monosaturated fatty acids<br>Polysaturated fatty acids<br>Saturated fatty acids<br>Trans-fatty acids | LI-00.511-2 Fatty acid<br>Capillary GLC<br>Issue Date: August 1999<br>Version 02           | 0.2-50 g/100g<br>2-10 g/100g<br>5-80 g/100g<br>0.02-5/100gm                                                                                                      |
|             |                                | Fatty acids Profile<br>Monosaturated fatty acids<br>Polysaturated fatty acids<br>Saturated fatty acids                      | ISO OFFICIAL METHOD<br>16958:2015 & IDF 231<br>Issue Date : February 2017                  | 0.2-50 g/100g<br>2-10 g/100g<br>5-80 g/100g<br>0.02-5/100gm                                                                                                      |

**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 100 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed                                     | Test Method Specification against which tests are performed                                              | Range of Testing / Limits of Detection                       |
|-----|----------------------------|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
|     |                            | Trans-fatty acids                                           |                                                                                                          |                                                              |
|     |                            | Vitamin A (Retinol )<br>Vitamin E (Tocopherol)              | LI-00.681-4 HPLC<br>(AOAC 2011.07, ISO 20633:2015)<br>Issue Date December 2016<br>Version 04             | 20-1500 µg /100g<br>0.1-50 mg/100g                           |
|     |                            | Vitamin D2 (Ergocalciferol)<br>Vitamin D3 (Cholecalciferol) | LI-00.680-1 by HPLC<br>(European Committee, CEN/TC 275 N 161 1995)<br>Issue date: Jan 1998<br>Version 01 | 1-10 µg/100g<br>1-15 µg/100g                                 |
|     |                            | Vitamin K1                                                  | LI-00.682-4 by HPLC ( J.AOAC Int 83 121-1-130 2000)<br>Issue date: May 2011<br>Version 04                | 3-150 µg/100g                                                |
|     |                            | Choline<br>L-Carnitine                                      | AOAC 2015.10<br>UHPLC-MS/MS<br>Issue Date: January 2017                                                  | 8-300 mg/100g<br>2.5- 150 mg/100g                            |
|     |                            | Folic Acid                                                  | LI-00.607 ( AOAC First Action 2013.13)<br>Issue Date: March 2014                                         | 6 -500µg/100g                                                |
|     |                            | Vitamin B12                                                 | LI-00.649-1 by HPLC<br>HPLC UV Issue<br>Date:July2013 Version 01                                         | 0.12-5.0 µg/100g                                             |
|     |                            | Vitamin C                                                   | LI-00.677-2 Potentiometry<br>Issue date : December 2009<br>Version 02                                    | 5-100 mg/100g                                                |
|     |                            | Vitamin B1<br><br>Vitamin B2<br>Vitamin B6                  | LI-00.610-01 UPLC/MS<br>Issue Date: June 2017<br>Version Number-01<br>EN 14122, EN 14152 & EN 15652      | 0.05-2.5 mg/100g<br><br>0.05-2.0 mg/100g<br>0.09-4.5 mg/100g |

**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 101 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed                                                                                     | Test Method Specification against which tests are performed                                 | Range of Testing / Limits of Detection                                                                                                                              |
|-----|----------------------------|-------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |                            | Vitamin B3<br>Biotin                                                                                        |                                                                                             | 0.35- 40 mg/100g<br>3-50 µg/100g                                                                                                                                    |
|     |                            | Taurine                                                                                                     | LI-00.650-5 HPLC<br>(AOAC 997.05, 1997)<br>Issue Date: October 2009<br>Version 052008-10-30 | 0.7-70 mg/100g                                                                                                                                                      |
|     |                            | Pantothenic acid                                                                                            | ISO 20639:2015<br>UHPLC-MS/MS<br>Issue date-2015                                            | 0.80 -20mg/100g                                                                                                                                                     |
|     |                            | Lactose<br>Sucrose<br>Maltose<br>Glucose<br>Fructose<br>Galactose<br>Maltotriose<br>Maltotetraose<br>Sugars | LI-00.593-01 HPAEC-PAD<br>Version 01<br>Issue Date: February 2016                           | 0.02 -15 g/100g<br>0.021-60 g/100g<br>0.03-10 g/100g<br>0.022- 10 g/100g<br>0.02-10 g/100g<br>0.02-10 g/100g<br>0.031-10 g/100g<br>0.021-10 g/100g<br>0.16-60g/100g |
|     |                            | Sucrose<br>Fructose<br>Glucose<br>Maltose<br>Maltotriose<br>Lactose<br>Sugars                               | LI-00.544-3 by HPLC,<br>MSDA No 463.1)<br>Issue Date: March 2013<br>Version 03              | 0.5-100g/100g<br>0.5-100g/100g<br>0.5-100g/100g<br>0.5-100g/100g<br>0.5-100g/100g<br>0.5-100g/100g<br>2.5 -65g/100g                                                 |
|     |                            | Total Dietary Fiber                                                                                         | LI-00.546-1 AOAC 985.29<br>Issue date:October 2009<br>Version 01                            | 0.5-20 g/100g                                                                                                                                                       |
|     |                            | FOSS                                                                                                        | LI-00.582-1 (AOAC 999.03)<br>Issue Date : March 2009<br>Version 1                           | 0.5- 30 g/100g                                                                                                                                                      |
|     |                            | Lactose in Milk                                                                                             | LI-00.593-01 HPAEC-PAD<br>Version 01<br>Issue Date: February 2016                           | 0.02 - 60g/100g                                                                                                                                                     |
|     |                            | Iodine                                                                                                      | LI-00.849-2 Version 02,                                                                     | 15- 1000 mcg/100g                                                                                                                                                   |

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**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 102 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test  | Specific Test Performed                                                       | Test Method Specification against which tests are performed                                            | Range of Testing / Limits of Detection                                                                              |
|-----|-----------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
|     |                             |                                                                               | Issue Date-May 2014<br>Total Iodine By ICP MS                                                          |                                                                                                                     |
| 2.  | Cereals and Cereal Products | Vitamin B1<br>Vitamin B2<br>Vitamin B6<br>Vitamin B3<br>Biotin                | LI-00.610-01 UPLC/MS<br>Issue Date: June 2017<br>Version Number-01<br>EN 14122, EN 14152 &<br>EN 15652 | 0.2-2.5mg/100g<br>0.15-3.0mg/100g<br>0.10-3.5 mg/100g<br>0.50- 70 mg/100g<br>6.0-70 µg/100g                         |
|     |                             | Chloride                                                                      | LI-00.580-3 Potentiometric (AOAC 986.26) Issue date-March 2010 Version 03                              | 15-1500 mg/100g                                                                                                     |
|     |                             | Total Dietary Fiber                                                           | LI-00.546-1 AOAC 985.29 Issue date: October 2009 Version 01                                            | 0.5-20 g/100g /                                                                                                     |
|     |                             | Vitamin A (Retinol)<br>Vitamin E (Tocopherol)                                 | LI-00.681-4 HPLC (AOAC 2011.07, ISO 20633:2015) Issue Date December 2016 Version 04                    | 20-1500 µg /100g<br>0.1-40 mg/100g                                                                                  |
|     |                             | Vitamin D2 (Ergocalciferol)<br>Vitamin D3 (Cholecalciferol)                   | LI-00.680-1 HPLC (European Committee, CEN/TC 275 N 161 1995) Issue date: Jan 1998 Version 01           | 3-25 µg/100g<br>3-25 µg/100g                                                                                        |
|     |                             | Sucrose<br>Fructose<br>Glucose<br>Maltose<br>Maltotriose<br>Lactose<br>Sugars | LI-00.544-3 by HPLC ( Swiss Official method, MSDA No 463.1) Issue Date: March 2013 Version 03          | 0.5-100g/100g<br>0.5-100g/100g<br>0.5-100g/100g<br>0.5-100g/100g<br>0.5-100g/100g<br>0.5-100g/100g<br>2.5 -65g/100g |
|     |                             | Lactose<br>Sucrose<br>Maltose<br>Glucose<br>Fructose                          | LI-00.593-01 y HPAEC-PAD Version 01 Issue Date: February 2016                                          | 0.02 -15 g/100g<br>0.021-60 g/100g<br>0.03-10 g/100g<br>0.022- 10 g/100g<br>0.02-10 g/100g                          |

**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 103 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed                                                                                                      | Test Method Specification against which tests are performed                                                   | Range of Testing / Limits of Detection                                |
|-----|----------------------------|------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
|     |                            | Galactose<br>Maltotriose<br>Maltotetraose<br>Sugars                                                                          |                                                                                                               | 0.02-10 g/100g<br>0.031-10 g/100g<br>0.021-10 g/100g<br>0.16-60g/100g |
|     |                            | Folic Acid                                                                                                                   | LI-00.607 ( AOAC First Action 2013.13)<br>Issue Date: March 2014                                              | 3-500µg/100g                                                          |
|     |                            | Crude fibre                                                                                                                  | LI-75.200 Gravimetric (EC No L344/36, 26.11.92)<br>Issue date : July 1999                                     | 0.2-5.0 g/100 g                                                       |
|     |                            | Crude fibre                                                                                                                  | IS : 10226 ( Part 1 ) 1982                                                                                    | 0.2-5.0 g/100g                                                        |
|     |                            | Vitamin C                                                                                                                    | LI-00.677-2 Potentiometry<br>Issue date : December 2009<br>Version 02                                         | 5-100 mg/100g                                                         |
|     |                            | Fatty acids Profile<br>Monosaturated fatty acids<br>Polysaturated fatty acids<br>Saturated fatty acids<br>Trans-fatty acids  | LI-00.511-2 GLC<br>Issue Date: August 1999<br>Version 02                                                      | 0.3-50 g/100g<br>2-10 g/100g<br>3-80 g/100g<br>0.02-5/100g            |
|     |                            | Fatty acids Profiles<br>Monosaturated fatty acids<br>Polysaturated fatty acids<br>Saturated fatty acids<br>Trans-fatty acids | LI-00.513 Direct<br>Issue Date: Sept 2004                                                                     | 0.2-50 g/100g<br>2-10 g/100g<br>5-80 g/100g<br>0.02-5/100g            |
|     |                            | Cholesterol                                                                                                                  | LI-00.531-1 Sterols Profile<br>GLC-FID<br>(IDF standard 159:1992)<br>Issue date : February 2009<br>Version 01 | 0.05-10 mg/100g                                                       |
|     |                            | Sodium<br>Potassium<br>Calcium                                                                                               | AOAC-2011.14 ICP OES<br>Issue date- October 2014                                                              | 5 -2000mg/100g<br>5 -2000mg/100g<br>5 -2000mg/100g                    |

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**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 104 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test  | Specific Test Performed                                                                                                     | Test Method Specification against which tests are performed                                | Range of Testing / Limits of Detection                                                                     |
|-----|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
|     |                             | Magnesium<br>Phosphorus<br>Iron<br>Copper<br>Manganese<br>Zinc                                                              |                                                                                            | 2-500 mg/100g<br>5-1500 mg/100g<br>0.5-50 mg/100g<br>0.1-50 mg/100g<br>10-2500 µg/100g<br>0.5-1500 mg/100g |
|     |                             | Pantothenic Acid                                                                                                            | ISO 20639:2015<br>UHPLC-MS/MS<br>Issue date-2015                                           | 0.80 -20mg/100g                                                                                            |
|     |                             | Iodine                                                                                                                      | LI-00.849-2 Version 02,<br>Issue Date-May 2014<br>ICP MS                                   | 15- 1000 mcg/100g                                                                                          |
| 3.  | <b>Edible Oils and Fats</b> | Fatty acids Profile<br>Monosaturated fatty acids<br>Polysaturated fatty acids<br>Saturated fatty acids<br>Trans-fatty acids | LI-00.511-2 Capillary GLC<br>Issue Date: August 1999<br>Version 02                         | 0.2-50 g/100g<br>2-10 g/100g<br>5-80 g/100g<br>0.02-5/100g/100g                                            |
|     |                             | Cholesterol                                                                                                                 | LI-00.531-1 GLC-FID<br>(IDF standard 159:1992)<br>Issue date : February 2009<br>Version 01 | 0.05-50 mg/100g                                                                                            |
|     |                             | Vitamin K1                                                                                                                  | LI-00.682-4 HPLC ( J.AOAC Int 83 121-1-130 2000)<br>Issue date: May 2011<br>Version 04     | 3-300 µg/100g                                                                                              |
|     |                             | Sodium<br>Potassium<br>Calcium<br>Magnesium<br>Phosphorus<br>Manganese                                                      | AOAC-2011.14 ICP OES<br>Issue date- October 2014                                           | 5 -2000mg/100g<br>5 -2000mg/100g<br>5 -2000mg/100g<br>2-500 mg/100g<br>5-1500 mg/100g<br>10-2500 µg/100g   |
|     |                             | Zinc<br>Copper                                                                                                              | LI-SGRL-99.110 ICP MS<br>Issue date; 20.11.2012                                            | Zn- 0.2- 50 mg/kg<br>Cu-0.05-10 mg/kg                                                                      |

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**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 105 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed                                                                          | Test Method Specification against which tests are performed                       | Range of Testing / Limits of Detection                                                                                                                           |
|-----|----------------------------|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |                            | Iron                                                                                             | Version 4                                                                         | Fe- 0.2-50 mg/kg                                                                                                                                                 |
|     |                            | Induction Period                                                                                 | ISO 6886:2016 Issue Date: October 2016                                            | 3 -hrs                                                                                                                                                           |
| 4.  | Infant Foods               | Chloride                                                                                         | LI-00.580-3 by Potentiometric (AOAC 986.26) Issue date- March 2010 Version 03     | 15-1500 mg/100g                                                                                                                                                  |
|     |                            | Cholesterol                                                                                      | LI-00.531-1 GLC-FID (IDF standard 159:1992) Issue date : February 2009 Version 01 | 0.05-60 mg/100g                                                                                                                                                  |
|     |                            | Vitamin K1                                                                                       | LI-00.682-4 HPLC ( J.AOAC Int 83 121-1-130 2000) Issue date: May 2011 Version 04  | 3-150 µg/100g                                                                                                                                                    |
|     |                            | Sodium<br>Potassium<br>Calcium<br>Magnesium<br>Phosphorus<br>Iron<br>Copper<br>Manganese<br>Zinc | AOAC-2011.14 ICP OES Issue date- October 2014                                     | 5 -2000mg/100g<br>5 -2000mg/100g<br>5 -2000mg/100g<br>2-500 mg/100g<br>5-1500 mg/100g<br>0.5-50 mg/100g<br>0.1-50 mg/100g<br>10-2500 µg/100g<br>0.5-1500 mg/100g |
|     |                            | Fatty acids Profile (Monosaturated, Polysaturated, Saturated and trans-fatty acids)              | ISO 16958:2015 & IDF 231 Issue Date : February 2017                               | 0.2-50 g/100g<br>2-10 g/100g<br>5-80 g/100g<br>0.02-5/100g                                                                                                       |
|     |                            | Fatty acids Profile (Monosaturated, Polysaturated, Saturated and trans-                          | LI-00.513 Issue Date: Sept 2004                                                   | 0.2-50 g/100g<br>2-10 g/100g<br>5-80 g/100g<br>0.02-5/100g                                                                                                       |

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**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 106 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed                                     | Test Method Specification against which tests are performed                                           | Range of Testing / Limits of Detection          |
|-----|----------------------------|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-------------------------------------------------|
|     |                            | fatty acids)                                                |                                                                                                       |                                                 |
|     |                            | Vitamin A (Retinol)<br>Vitamin E (Tocopherol)               | LI-00.681-4 HPLC<br>(AOAC 2011.07, ISO 20633:2015)<br>Issue Date December 2016<br>Version 04          | 100-1500 µg /100g<br>1.0-40 mg/100g             |
|     |                            | Choline<br>L-Carnitine                                      | AOAC 2015.10<br>UHPLC-MS/MS<br>Issue Date: January 2017                                               | 8-300 mg/100g<br>2.5- 150 mg/100g               |
|     |                            | Vitamin D2 (Ergocalciferol)<br>Vitamin D3 (Cholecalciferol) | LI-00.680-1 HPLC<br>(European Committee, CEN/TC 275 N 161 1995)<br>Issue date: Jan 1998<br>Version 01 | 4 -30µg/100g<br>4 -30µg/100g                    |
|     |                            | Vitamin B12                                                 | LI-00.649-1 HPLC UV<br>Issue Date: July 2013<br>Version 01                                            | 0.12-5 µg/100g                                  |
|     |                            | Vitamin C                                                   | LI-00.677-2 Potentiometry<br>Issue date : December 2009<br>Version 02                                 | 5 -150mg/100g                                   |
|     |                            | Taurine                                                     | LI-00.650-5 HPLC (AOAC 997.05, 1997) Issue Date: October 2009<br>Version 052008-10-30<br>2008-10-30   | 0.7-70 mg/100g                                  |
|     |                            | Folic Acid                                                  | LI-00.607<br>Issue Date: March 2014                                                                   | 6 -500µg/100g                                   |
|     |                            | Sucrose<br>Fructose<br>Glucose<br>Maltose                   | LI-00.544-3 by HPLC<br>Issue Date: March 2013<br>Version 03                                           | 0.5-100g/100g<br>LoQ 0.5g/100g<br>2.5 -60g/100g |

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**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 107 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test          | Specific Test Performed                                                                                     | Test Method Specification against which tests are performed                                              | Range of Testing / Limits of Detection                                                                                                                               |
|-----|-------------------------------------|-------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |                                     | Maltotriose<br>Lactose<br>Sugars                                                                            |                                                                                                          |                                                                                                                                                                      |
|     |                                     | Vitamin B1<br>Vitamin B2<br>Vitamin B6<br>Vitamin B3<br>Biotin                                              | LI-00.610-01 UPLC/MS<br>Issue Date: June 2017<br>Version Number-01<br>EN 14122, EN 14152 & EN 15652      | 0.15-2.5mg/100g<br>0.15-3.0mg/100g<br>0.1-3.5 mg/100g<br>1.01- 70 mg/100g<br>5-70 µg/100g                                                                            |
|     |                                     | Total Dietary Fiber                                                                                         | LI-00.546-1 AOAC 985.29<br>Issue date: October 2009<br>Version 01                                        | 0.5-20 g/100g                                                                                                                                                        |
|     |                                     | Lactose<br>Sucrose<br>Maltose<br>Glucose<br>Fructose<br>Galactose<br>Maltotriose<br>Maltotetraose<br>Sugars | LI-00.593-01 HPAEC-PAD<br>Version 01<br>Issue Date: February 2016                                        | 0.02 -15 g/100g<br>0.021-80 g/100g<br>0.03-10 g/100g<br>0.022- 10 g/100g<br>0.02-10 g/100g<br>0.02-10 g/100g<br>0.031-10 g/100g<br>0.021-10 g/100g<br>0.02-80 g/100g |
|     |                                     | Pantothenic Acid                                                                                            | ISO 20639:2015<br>Pantothenic acid by<br>UHPLC-MS/MS<br>Issue date-2015                                  | 0.80 -20mg/100g                                                                                                                                                      |
|     |                                     | Iodine                                                                                                      | LI-00.849-2 Version 02,<br>Issue Date-May 2014<br>ICP MS                                                 | 15- 1000 mcg/100g                                                                                                                                                    |
| 5.  | <b>Starch &amp; Starch Products</b> | Alpha-Amylase Activity (Bacterial)                                                                          | Spectrophotometer<br>Appendix V, Enzyme Assays, FCC 8, pg- 1309<br>Issue date : 01.10.2013<br>Version 04 | 550-3500000<br>BAU/g (LoQ)                                                                                                                                           |
|     |                                     | Sodium<br>Potassium<br>Calcium<br>Magnesium                                                                 | AOAC-2011.14 ICP OES<br>Issue date- October 2014                                                         | 5 -2000mg/100g<br>5 -2000mg/100g<br>5 -2000mg/100g<br>2-500 mg/100g                                                                                                  |

**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 108 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed                                                                                     | Test Method Specification against which tests are performed                                               | Range of Testing / Limits of Detection                                                                                                                              |
|-----|----------------------------|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |                            | Phosphorus<br>Iron<br>Copper<br>Manganese<br>Zinc                                                           |                                                                                                           | 5-1500 mg/100g<br>0.5-50 mg/100g<br>0.1-50 mg/100g<br>10-2500 µg/100g<br>0.5-1500 mg/100g                                                                           |
|     |                            | Sucrose<br>Fructose<br>Glucose<br>Maltose<br>Maltotriose<br>Lactose<br>Sugars                               | LI-00.544-3 by HPLC<br>( Swiss Official method,<br>MSDA No 463.1)<br>Issue Date: March 2013<br>Version 03 | 0.5-100g/100g<br>LoQ 0.5g/100g<br><br>2.5 -60g/100g                                                                                                                 |
|     |                            | Lactose<br>Sucrose<br>Maltose<br>Glucose<br>Fructose<br>Galactose<br>Maltotriose<br>Maltotetraose<br>Sugars | LI-00.593-01 HPAEC-PAD<br>Version 01<br>Issue Date: February 2016                                         | 0.02 -15 g/100g<br>0.021-60 g/100g<br>0.03-10 g/100g<br>0.022- 10 g/100g<br>0.02-10 g/100g<br>0.02-10 g/100g<br>0.031-10 g/100g<br>0.021-10 g/100g<br>0.02-60g/100g |
|     |                            | Chloride                                                                                                    | LI-00.580-3 Potentiometric<br>(AOAC 986.26) Issue date-<br>March 2010 Version 03                          | 15-1500 mg/100g                                                                                                                                                     |
|     |                            | Melamine                                                                                                    | LI-00.176-4<br>LC-MS/MS<br>Issue date: April 2009<br>Version 04                                           | 0.05-100mg/kg                                                                                                                                                       |
| 6.  | Coffee & Cocoa Products    | Sodium<br>Potassium<br>Calcium<br>Magnesium<br>Phosphorus<br>Iron<br>Copper<br>Manganese                    | AOAC-2011.14 ICP OES<br>Issue date- October 2014                                                          | 5 -2000mg/100g<br>5 -2000mg/100g<br>5 -2000mg/100g<br>2-500 mg/100g<br>5-1500 mg/100g<br>0.5-50 mg/100g<br>0.1-50 mg/100g<br>10-2500 µg/100g                        |

**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 109 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed                                                                                                     | Test Method Specification against which tests are performed                                              | Range of Testing / Limits of Detection                                                                              |
|-----|----------------------------|-----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
|     |                            | Zinc                                                                                                                        |                                                                                                          | 0.5-1500 mg/100g                                                                                                    |
|     |                            | Fatty acids Profile<br>Monosaturated fatty acids<br>Polysaturated fatty acids<br>Saturated fatty acids<br>Trans-fatty acids | LI-00.511-2 Capillary GLC<br>Issue Date: August 1999<br>Version 02                                       | 0.2-50 g/100g<br>2-10 g/100g<br>5-80 g/100g<br>0.02-5/100g                                                          |
|     |                            | Cholesterol                                                                                                                 | LI-00.531-1 GLC-FID<br>(IDF standard 159:1992)<br>Issue date : February 2009<br>Version 01               | 0.05-20 mg/100g                                                                                                     |
|     |                            | Vitamin A (Retinol)<br>Vitamin E (Tocopherol)                                                                               | LI-00.681-4 HPLC<br>(AOAC 2011.07, ISO 20633:2015)<br>Issue Date December 2016<br>Version 04             | 20-500 µg /100g<br>0.1-25 mg/100g                                                                                   |
|     |                            | Vitamin D2 (Ergocalciferol)<br>Vitamin D3 (Cholecalciferol)                                                                 | LI-00.680-1 by HPLC<br>(European Committee, CEN/TC 275 N 161 1995)<br>Issue date: Jan 1998<br>Version 01 | 1 -5 µg/100g<br>1 -7 µg/100g                                                                                        |
|     |                            | Vitamin B12                                                                                                                 | LI-00.649-1 HPLC UV<br>Issue Date: July 2013<br>Version 01                                               | 0.07-15 µg/100g                                                                                                     |
|     |                            | TDF                                                                                                                         | LI-00.546-1 AOAC 985.29<br>Issue date: October 2009<br>Version 01                                        | 0.5-20 g/100g                                                                                                       |
|     |                            | Sucrose<br>Fructose<br>Glucose<br>Maltose<br>Maltotriose<br>Lactose<br>Sugars                                               | LI-00.544-3 by HPLC<br>( Swiss Official method, MSDA No 463.1)<br>Issue Date: March 2013<br>Version 03   | 0.5-100g/100g<br>0.5-100g/100g<br>0.5-100g/100g<br>0.5-100g/100g<br>0.5-100g/100g<br>0.5-100g/100g<br>2.5 -99g/100g |
| 7.  | Confectionary              | Sodium                                                                                                                      | AOAC-2011.14 y ICP OES                                                                                   | 5 -2000mg/100g                                                                                                      |

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**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 110 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test                      | Specific Test Performed                                                                                                     | Test Method Specification against which tests are performed                                            | Range of Testing / Limits of Detection                                                                                                         |
|-----|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
|     | <b>Products</b>                                 | Potassium<br>Calcium<br>Magnesium<br>Phosphorus<br>Iron<br>Copper<br>Manganese<br>Zinc                                      | Issue date- October 2014                                                                               | 5 -2000mg/100g<br>5 -2000mg/100g<br>2-500 mg/100g<br>5-1500 mg/100g<br>0.5-50 mg/100g<br>0.1-50 mg/100g<br>10-2500 µg/100g<br>0.5-1500 mg/100g |
|     |                                                 | Sucrose<br>Fructose<br>Glucose<br>Maltose<br>Maltotriose<br>Lactose<br>Sugars                                               | LI-00.544-3 HPLC<br>( Swiss Official method,<br>MSDA No 463.1)<br>Issue Date: March 2013<br>Version 03 | 0.5-100g/100g<br>LoQ 0.5g/100g<br><br>2.5 -99g/100g                                                                                            |
|     |                                                 | Fatty acids Profile<br>Monosaturated fatty acids<br>Polysaturated fatty acids<br>Saturated fatty acids<br>Trans-fatty acids | LI-00.511-2 Capillary GLC<br>Issue Date: August 1999<br>Version 02                                     | 0.2-50 g/100g<br>2-10 g/100g<br>5-80 g/100g<br>0.02-5/100g                                                                                     |
|     |                                                 | TDF                                                                                                                         | LI-00.546-1 AOAC 985.29<br>Issue date: October 2009<br>Version 01                                      | 0.5-20 g/100g                                                                                                                                  |
|     |                                                 | Cholesterol                                                                                                                 | LI-00.531-1 GLC-FID<br>(IDF standard 159:1992)<br>Issue date : February 2009<br>Version 01             | 0.05 -20mg/100g                                                                                                                                |
| 8.  | <b>Edible color, Flavour &amp; Preservative</b> | Vitamin A (Retinol)<br>Vitamin E (Tocopherol)                                                                               | LI-00.681-4 HPLC<br>(AOAC 2011.07, ISO 20633:2015)<br>Issue Date December 2016<br>Version 04           | 20-500 µg /100g<br>0.1-40 mg/100g                                                                                                              |
|     |                                                 | Total Dietary Fiber                                                                                                         | LI-00.546-1 AOAC 985.29<br>Issue date: October 2009                                                    | 0.5-20 g/100g                                                                                                                                  |

**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 111 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test                 | Specific Test Performed                                                                          | Test Method Specification against which tests are performed                                              | Range of Testing / Limits of Detection                                                                                                                           |
|-----|--------------------------------------------|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |                                            |                                                                                                  | Version 01                                                                                               |                                                                                                                                                                  |
|     |                                            | Sodium<br>Potassium<br>Calcium<br>Magnesium<br>Phosphorus<br>Iron<br>Copper<br>Manganese<br>Zinc | AOAC-2011.14 ICP OES<br>Issue date- October 2014                                                         | 5 -2000mg/100g<br>5 -2000mg/100g<br>5 -2000mg/100g<br>2-500 mg/100g<br>5-1500 mg/100g<br>0.5-50 mg/100g<br>0.1-50 mg/100g<br>10-2500 µg/100g<br>0.5-1500 mg/100g |
| 9.  | <b>Food Additives-<br/>Vitamin Pre Mix</b> | Sodium<br>Potassium<br>Calcium<br>Magnesium<br>Phosphorus<br>Iron<br>Copper<br>Manganese<br>Zinc | AOAC-2011.14 ICP OES<br>Issue date- October 2014                                                         | 5 -2000mg/100g<br>5 -2000mg/100g<br>5 -2000mg/100g<br>2-500 mg/100g<br>5-1500 mg/100g<br>0.5-50 mg/100g<br>0.1-50 mg/100g<br>10-2500 µg/100g<br>0.5-1500 mg/100g |
|     |                                            | Vitamin C                                                                                        | LI-00.677-2 Potentiometry<br>Issue date : December<br>2009 Version 02                                    | 5 -150mg/100g                                                                                                                                                    |
|     |                                            | Vitamin B3<br>Pantothenic Acid (B5)<br>B6<br>B1 (Thiamine)<br>B2 (Riboflavin)<br>B9 (Folic Acid) | LI-03.703-2<br>Version 02<br>Issue Date: December<br>2013                                                | PP 0.98- 5000 mg/100g<br>PA 0.89-45000 mg/100g<br>B6 0.83-40000 mg/100g<br>B1 0.78-39000 mg/100g<br>B2 0.70- 35000 mg/100g<br>0.21-10000 mg/100g                 |
|     |                                            | Taurine                                                                                          | LI-00.650-5 by HPLC<br>(AOAC 997.05, 1997) Issue<br>Date: October 2009 Version<br>052008-10-302008-10-30 | 0.07-35 g/100g                                                                                                                                                   |
|     |                                            | Vitamin B12                                                                                      | LI-00.649-1 by HPLC HPLC<br>UV Issue Date: July 2013<br>Version 01                                       | 20-2000 µg/100g                                                                                                                                                  |
|     |                                            | Biotin                                                                                           | LI-00.610-01 UPLC/MS                                                                                     | 1000-8000 µg/100g                                                                                                                                                |

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**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 112 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test                                            | Specific Test Performed                                                                          | Test Method Specification against which tests are performed                           | Range of Testing / Limits of Detection                                                                                                                           |
|-----|-----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |                                                                       |                                                                                                  | Issue Date: June 2017<br>Version Number-01<br>EN 14122, EN 14152 & EN 15652           |                                                                                                                                                                  |
|     |                                                                       | Vitamin A (Acetate)<br>Vitamin E (Acetate)<br>Vitamin D2<br>Vitamin D3<br>Vitamin K1             | LI-03.701-3 HPLC (AOAC 985.27. 979.24, 980.26)<br>Issue Date: July 2013<br>Version 03 | 180-15000 µg/g<br>1.33-70 mg/g<br>10-100 µg/g<br>10-100 µg/g<br>20-500 µg/g                                                                                      |
| 10. | <b>Food Additives</b>                                                 | Alpha-Amylase Activity (Bacterial)                                                               | Spectrophotometer<br>Appendix V, , FCC 8, p-1309                                      | 550-300000 BAU/g (LoQ)                                                                                                                                           |
|     |                                                                       | Sodium<br>Potassium<br>Calcium<br>Magnesium<br>Phosphorus<br>Iron<br>Copper<br>Manganese<br>Zinc | AOAC-2011.14 ICP OES<br>Issue date- October 2014                                      | 5 -2000mg/100g<br>5 -2000mg/100g<br>5 -2000mg/100g<br>2-500 mg/100g<br>5-1500 mg/100g<br>0.5-50 mg/100g<br>0.1-50 mg/100g<br>10-2050 µg/100g<br>0.5-1500 mg/100g |
| 11. | <b>Salts</b>                                                          | Iodine                                                                                           | LI-00.849-2 Version 02,<br>Issue Date-May 2014<br>ICP MS -2<br>ICP-MS                 | 15- 2500 mcg/100g                                                                                                                                                |
| 12. | <b>Fruits and fruit Products<br/>Vegetable and Vegetable Products</b> | Sodium<br>Potassium<br>Calcium<br>Magnesium<br>Phosphorus<br>Iron<br>Copper<br>Manganese<br>Zinc | AOAC-2011.14 ICP OES<br>Issue date- October 2014                                      | 5 -2000mg/100g<br>5 -2000mg/100g<br>5 -2000mg/100g<br>2-500 mg/100g<br>5-1500 mg/100g<br>0.5-50 mg/100g<br>0.1-50 mg/100g<br>10-2500 µg/100g<br>0.5-1500 mg/100g |
|     |                                                                       | Total Dietary Fiber                                                                              | LI-00.546-1 AOAC 985.29                                                               | 0.5-20 g/100g                                                                                                                                                    |



**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 113 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed                                                                                                            | Test Method Specification against which tests are performed                                         | Range of Testing / Limits of Detection                                                                                                                           |
|-----|----------------------------|------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |                            |                                                                                                                                    | Issue date: October 2009<br>Version 01                                                              |                                                                                                                                                                  |
|     |                            | Vitamin C                                                                                                                          | LI-00.677-2 Potentiometry<br>Issue date : December 2009<br>Version 02                               | 5 -150mg/100g                                                                                                                                                    |
| 13. | Honey and Honey Products   | Sugars                                                                                                                             | LI-00.544-3 HPLC<br>( Swiss Official method, MSDA No 463.1)<br>Issue Date: March 2013<br>Version 03 | 2.5 -99g/100g                                                                                                                                                    |
|     |                            | Sodium<br>Potassium<br>Calcium<br>Magnesium<br>Phosphorus<br>Iron<br>Copper<br>Manganese<br>Zinc                                   | AOAC-2011.14 ICP OES<br>Issue date- October 2014                                                    | 5 -2000mg/100g<br>5 -2000mg/100g<br>5 -2000mg/100g<br>2-500 mg/100g<br>5-1500 mg/100g<br>0.5-50 mg/100g<br>0.1-50 mg/100g<br>10-2500 µg/100g<br>0.5-1500 mg/100g |
| 14. | Pet Foods Animal Feed      | Crude Fiber                                                                                                                        | LI-75.200 Gravimetric (EC No L344/36, 26.11.92)<br>Issue date : July 1999                           | 0.2-20 g/100g                                                                                                                                                    |
| 15. | Tea                        | Gallic acid<br>GalloCatechin (GC)<br>EpiGalloCatechin (EGC)<br>Catechin<br>Caffeine<br>EpiCatechin (EC)<br>EpiGalloCatechinGallate | LI-22.018 HPLC (ISO/FDIS 14502-2)<br>Issue Date: January 2007                                       | 0.02-45.0 g/100g                                                                                                                                                 |
|     |                            | Fatty acids Profile<br>Monosaturated fatty acids<br>Polysaturated fatty acids<br>Saturated fatty acids                             | LI-00.511-2 Capillary GLC<br>Issue Date: August 1999<br>Version 02                                  | 0.2-50 g/100g<br>2-10 g/100g<br>5-80 g/100g<br>0.02-5/100g                                                                                                       |

**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 114 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test   | Specific Test Performed                                                                          | Test Method Specification against which tests are performed                                            | Range of Testing / Limits of Detection                                                                                                                           |
|-----|------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |                              | Trans-fatty acids                                                                                |                                                                                                        |                                                                                                                                                                  |
|     |                              | Cholesterol                                                                                      | LI-00.531-1 GLC-FID<br>(IDF standard 159:1992)<br>Issue date : February 2009<br>Version 01             | 0.05 -20mg/100g                                                                                                                                                  |
|     |                              | Total Dietary Fiber                                                                              | LI-00.546-1 AOAC 985.29<br>Issue date: October 2009<br>Version 01                                      | 0.5-20 g/100g                                                                                                                                                    |
|     |                              | Sucrose<br>Fructose<br>Glucose<br>Maltose<br>Maltotriose<br>Lactose<br>Sugars                    | LI-00.544-3 HPLC<br>( Swiss Official method,<br>MSDA No 463.1)<br>Issue Date: March 2013<br>Version 03 | 0.5-100g/100g<br>LoQ 0.5g/100g<br><br>2.5 -65g/100g                                                                                                              |
|     |                              | Sodium<br>Potassium<br>Calcium<br>Magnesium<br>Phosphorus<br>Iron<br>Copper<br>Manganese<br>Zinc | AOAC-2011.14 ICP OES<br>Issue date- October 2014                                                       | 5 -2000mg/100g<br>5 -2000mg/100g<br>5 -2000mg/100g<br>2-500 mg/100g<br>5-1500 mg/100g<br>0.5-50 mg/100g<br>0.1-50 mg/100g<br>10-2500 µg/100g<br>0.5-1500 mg/100g |
|     |                              | Vitamin C                                                                                        | LI-00.677-2 Potentiometry<br>Issue date December 2009<br>Version 02                                    | 5-150 mg/100g                                                                                                                                                    |
| 16. | Herbs, Spices and Condiments | Vitamin A (Retinol)                                                                              | LI-00.681-4 HPLC<br>(AOAC 2011.07, ISO 20633:2015)<br>Issue Date December 2016<br>Version 04           | 1000-7500 µg /100g                                                                                                                                               |
|     |                              | Sodium<br>Potassium<br>Calcium<br>Magnesium                                                      | AOAC-2011.14 ICP OES<br>Issue date- October 2014                                                       | 5 -2000mg/100g<br>5 -2000mg/100g<br>5 -2000mg/100g<br>2-500 mg/100g                                                                                              |

**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 115 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test              | Specific Test Performed                                                                          | Test Method Specification against which tests are performed                               | Range of Testing / Limits of Detection                                                                                                                           |
|-----|-----------------------------------------|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |                                         | Phosphorus<br>Iron<br>Copper<br>Manganese<br>Zinc                                                |                                                                                           | 5-1500 mg/100g<br>0.5-50 mg/100g<br>0.1-50 mg/100g<br>10-2500 µg/100g<br>0.5-1500 mg/100g                                                                        |
|     |                                         | Crude fibre                                                                                      | IS : 10226 ( Part I ) 1982                                                                | 15-35 g/100g                                                                                                                                                     |
|     |                                         | Crude fibre                                                                                      | LI-75.200 Gravimetric (EC No L344/36, 26.11.92)<br>Issue date : July 1999                 | 5-40 g/100g                                                                                                                                                      |
|     |                                         | Total Dietary Fiber                                                                              | LI-00.546-1 AOAC 985.29<br>Issue date: October 2009<br>Version 01                         | LoQ 0.5 -20g/100g                                                                                                                                                |
| 17. | Herbs, Spices and Condiments Tastemaker | Iodine                                                                                           | LI-00.849-2 Version 02,<br>Issue Date-May 2014<br>ICP MS                                  | 15- 2500 mcg/100g                                                                                                                                                |
| 18. | Tastemaker                              | Vitamin A (Retinol)                                                                              | LI-00.681-4 HPLC (AOAC 2011.07, ISO 20633:2015)<br>Issue Date December 2016<br>Version 04 | 3000-7500 µg /100g                                                                                                                                               |
| 19. | Juices, Sauces and Concentrates         | Total Dietary Fiber                                                                              | LI-00.546-1 AOAC 985.29<br>Issue date: October 2009<br>Version 01                         | 0.5-20 g/100g                                                                                                                                                    |
|     |                                         | Sodium<br>Potassium<br>Calcium<br>Magnesium<br>Phosphorus<br>Iron<br>Copper<br>Manganese<br>Zinc | AOAC-2011.14 ICP OES<br>Issue date- October 2014                                          | 5 -2000mg/100g<br>5 -2000mg/100g<br>5 -2000mg/100g<br>2-500 mg/100g<br>5-1500 mg/100g<br>0.5-50 mg/100g<br>0.1-50 mg/100g<br>10-2500 µg/100g<br>0.5-1500 mg/100g |
|     |                                         | Sucrose<br>Fructose                                                                              | LI-00.544-3 HPLC ( Swiss Official method,                                                 | 0.5-100g/100g<br>LoQ 0.5g/100g                                                                                                                                   |

**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 116 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test      | Specific Test Performed                                                                                     | Test Method Specification against which tests are performed                                            | Range of Testing / Limits of Detection                                                                                                                              |
|-----|---------------------------------|-------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |                                 | Glucose<br>Maltose<br>Maltotriose<br>Lactose<br>Sugars                                                      | MSDA No 463.1)<br>Issue Date: March 2013<br>Version 03                                                 | 2.5 -65g/100g                                                                                                                                                       |
|     |                                 | Vitamin A (Retinol)<br>Vitamin E (Tocopherol)                                                               | LI-00.681-4 HPLC<br>(AOAC 2011.07, ISO 20633:2015)<br>Issue Date December 2016<br>Version 04           | 20-500 µg /100g<br>0.1-20 mg/100g                                                                                                                                   |
|     |                                 | Vitamin C                                                                                                   | LI-00.677-2 Potentiometry<br>Issue date : December 2009<br>Version 02                                  | 5-150 mg/100g                                                                                                                                                       |
|     |                                 | Lactose<br>Sucrose<br>Maltose<br>Glucose<br>Fructose<br>Galactose<br>Maltotriose<br>Maltotetraose<br>Sugars | LI-00.593-01<br>Version 01<br>Issue Date: February 2016                                                | 0.02 -15 g/100g<br>0.021-60 g/100g<br>0.03-10 g/100g<br>0.022- 10 g/100g<br>0.02-10 g/100g<br>0.02-10 g/100g<br>0.031-10 g/100g<br>0.021-10 g/100g<br>0.02-60g/100g |
| 20. | <b>Sugar and Sugar Products</b> | Sucrose<br>Fructose<br>Glucose<br>Maltose<br>Maltotriose<br>Lactose<br>Sugars                               | LI-00.544-3 by HPLC<br>( Swiss Official method, MSDA No 463.1)<br>Issue Date: March 2013<br>Version 03 | 0.5-100g/100g<br>LoQ 0.5g/100g<br><br>2.5 -65g/100g                                                                                                                 |
|     |                                 | Sodium<br>Potassium<br>Calcium<br>Magnesium<br>Phosphorus                                                   | AOAC-2011.14 ICP OES<br>Issue date- October 2014                                                       | 5 -2000mg/100g<br>5 -2000mg/100g<br>5 -2000mg/100g<br>2-500 mg/100g<br>5-1500 mg/100g                                                                               |

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**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 117 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test     | Specific Test Performed                                                                                                     | Test Method Specification against which tests are performed                                           | Range of Testing / Limits of Detection                                                                                                                           |
|-----|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |                                | Iron<br>Copper<br>Manganese<br>Zinc                                                                                         |                                                                                                       | 0.2-50 mg/100g<br>0.1-50 mg/100g<br>10-2500 µg/100g<br>0.5-1500 mg/100g                                                                                          |
| 21. | <b>Beverages Non Alcoholic</b> | Sodium<br>Potassium<br>Calcium<br>Magnesium<br>Phosphorus<br>Iron<br>Copper<br>Manganese<br>Zinc                            | AOAC-2011.14 ICP OES<br>Issue date- October 2014                                                      | 5 -2000mg/100g<br>5 -2000mg/100g<br>5 -2000mg/100g<br>2-500 mg/100g<br>5-1500 mg/100g<br>0.5-50 mg/100g<br>0.1-50 mg/100g<br>10-2500 µg/100g<br>0.5-1500 mg/100g |
|     |                                | Fatty acids Profile<br>Monosaturated fatty acids<br>Polysaturated fatty acids<br>Saturated fatty acids<br>Trans-fatty acids | LI-00.511-2 Capillary GLC<br>Issue Date: August 1999<br>Version 02                                    | 0.2-50 g/100g<br>2-10 g/100g<br>5-80 g/100g<br>0.02-5 g/100g                                                                                                     |
|     |                                | Vitamin A (Retinol )<br>Vitamin E (Tocopherol)                                                                              | LI-00.681-4 HPLC<br>(AOAC 2011.07, ISO 20633:2015)<br>Issue Date December 2016<br>Version 04          | 20-500 µg /100g<br>0.2-30 mg/100g                                                                                                                                |
|     |                                | Vitamin D2 (Ergocalciferol)<br>Vitamin D3 (Cholecalciferol)                                                                 | LI-00.680-1 HPLC<br>(European Committee, CEN/TC 275 N 161 1995)<br>Issue date: Jan 1998<br>Version 01 | 1 -5 µg/100g<br>1 -10 µg/100g                                                                                                                                    |
|     |                                | Vitamin K1                                                                                                                  | LI-00.682-4 HPLC<br>(J.AOAC Int 83 121-1-130 2000)<br>Issue date: May 2011<br>Version 04              | 3-150 µg/100g                                                                                                                                                    |

**Laboratory** Nestle Quality Assurance Centre, Moga Nestle India Limited,  
Ludhiana Ferozpur Road, Moga, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5718

**Page 118 of 118**

**Validity** 27.12.2017 to 26.12.2019

**Last Amended on**

| Sl. | Product / Material of Test | Specific Test Performed                                                       | Test Method Specification against which tests are performed                                   | Range of Testing / Limits of Detection                                                                              |
|-----|----------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
|     |                            | Vitamin B12                                                                   | LI-00.649-1 HPLC Vitamin B12 by HPLC UV Issue Date: July 2013 Version 01                      | 0.12-5.0 µg/100g                                                                                                    |
|     |                            | Vitamin C                                                                     | LI-00.677-2 Potentiometry Issue date : December 2009 Version 02                               | 5-100 mg/100g                                                                                                       |
|     |                            | Vitamin B1<br>Vitamin B2<br>Vitamin B6<br>Vitamin B3<br>Biotin                | LI-00.610-01 UPLC/MS Issue Date: June 2017 Version Number-01<br>EN 14122, EN 14152 & EN 15652 | 0.05-2.0 mg/100g<br>0.05-1.0mg/100g<br>0.10-3.0 mg/100g<br>0.50 - 70 mg/100g<br>5.0-70 µg/100g                      |
|     |                            | Pantothenic acid                                                              | ISO 20639:2015 UHPLC-MS/MS Issue date-2015                                                    | 0.80 -20mg/100g                                                                                                     |
|     |                            | Sucrose<br>Fructose<br>Glucose<br>Maltose<br>Maltotriose<br>Lactose<br>Sugars | LI-00.544-3 by HPLC (Swiss Official method, MSDA No 463.1) Issue Date: March 2013 Version 03  | 0.5-100g/100g<br>0.5-100g/100g<br>0.5-100g/100g<br>0.5-100g/100g<br>0.5-100g/100g<br>0.5-100g/100g<br>2.5 -65g/100g |