

Laboratory Eurofins Analytical Services India Private Limited, First Floor, Plot No. 157, Udyog Vihar, Phase I, Gurugram, Haryana

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6400 Page 1 of 44

Validity 12.10.2017 to 11.10.2019 Last Amended on 10.10.2018

| Sl. | Product / Material of Test | Specific Test Performed | Test Method Specification against which tests are performed | Range of Testing / Limits of Detection |
|-----|----------------------------|-------------------------|-------------------------------------------------------------|----------------------------------------|
|-----|----------------------------|-------------------------|-------------------------------------------------------------|----------------------------------------|

#### BIOLOGICAL TESTING

|    |                                                                                                                                                                                                                                                                                                                      |                              |                                |                    |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------|--------------------|
| I. | FOODS & AGRICULTURAL PRODUCTS                                                                                                                                                                                                                                                                                        |                              |                                |                    |
| 1. | Herbs Spices and Condiments (Garcinia, Cardamom, Instant Sambar Mix, ashwagandha, Boswellia, Haldi Powder, Psyllium Seed, Tulsi Leaves, Coriander, chilli, Cumin Seeds, Clove, Fennel, Fenugreek seeds, Mustard, Seeds, Black Pepper, Mixed Masala, dried Mango slice, Amchur, Dehydrated onion, Asafoetida Nutmeg,) | Aerobic Plate count          | ISO 4833-1:2013                | ≥ 10 cfu/g         |
|    |                                                                                                                                                                                                                                                                                                                      |                              | USFDA BAM: Chapter 3: 2001     | ≥ 10 cfu/g         |
|    |                                                                                                                                                                                                                                                                                                                      |                              | IS 5402:2012, RA 2018          | ≥ 10 cfu/g         |
|    |                                                                                                                                                                                                                                                                                                                      | Enumeration of <i>E.coli</i> | ISO 16649-2:2001               | ≥ 10 cfu/g         |
|    |                                                                                                                                                                                                                                                                                                                      |                              | USFDA BAM: Chapter 4: 2013     | <3 to >1100MPN/g   |
|    |                                                                                                                                                                                                                                                                                                                      |                              | IS 5887 (P1):1976, RA 2018     | Present/Absent/g   |
|    |                                                                                                                                                                                                                                                                                                                      | Enumeration of Coliforms     | ISO 4832-2006                  | ≥ 10 cfu/g         |
|    |                                                                                                                                                                                                                                                                                                                      |                              | USFDA BAM: Chapter 4 :2013     | <3 to >1100MPN/g   |
|    |                                                                                                                                                                                                                                                                                                                      |                              | IS 5401(P1) :2012, RA 2018     | ≥ 10 cfu/g         |
|    |                                                                                                                                                                                                                                                                                                                      | Enterobacteriaceae           | ISO 21528-2:2017               | ≥ 10 cfu/g         |
|    |                                                                                                                                                                                                                                                                                                                      | <i>Shigella spp</i>          | IS 5887(P-7):1999, RA 2018     | Present/Absent/25g |
|    |                                                                                                                                                                                                                                                                                                                      | <i>S.aureus</i>              | ISO 6888-1:1999                | ≥ 10 cfu/g         |
|    |                                                                                                                                                                                                                                                                                                                      |                              | USFDA BAM Chapter 12:2001      | ≥ 10 cfu/g         |
|    |                                                                                                                                                                                                                                                                                                                      |                              | IS 5887(P8/SEC1):2002, RA 2018 | ≥ 10 cfu/g         |
|    |                                                                                                                                                                                                                                                                                                                      | <i>Salmonella spp</i>        | ISO 6579-1:2017                | Present/Absent/25g |
|    |                                                                                                                                                                                                                                                                                                                      |                              | Chapter 5, US FDA-BAM:2014     | Present/Absent/25g |
|    |                                                                                                                                                                                                                                                                                                                      |                              | IS 5887(P3):1999, RA 2018      | Present/Absent/25g |

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| Sl. | Product / Material of Test                                                                                                                | Specific Test Performed        | Test Method Specification against which tests are performed | Range of Testing / Limits of Detection |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-------------------------------------------------------------|----------------------------------------|
|     |                                                                                                                                           | Enumeration of Yeast and Mold  | ISO 21527-2:2008                                            | ≥ 10 cfu/g                             |
|     |                                                                                                                                           |                                | ISO 21527-1:2008                                            | ≥ 10 cfu/g                             |
|     |                                                                                                                                           |                                | USFDA BAM: Chapter 18 :2001                                 | ≥ 10 cfu/g                             |
|     |                                                                                                                                           |                                | IS 5403:1999, RA 2018                                       | ≥ 10 cfu/g                             |
|     |                                                                                                                                           | <i>B. Cereus</i>               | ISO 7932-2005                                               | ≥ 10 cfu/g                             |
|     |                                                                                                                                           |                                | USFDA BAM: Chapter 14:2012                                  | ≥ 10 cfu/g                             |
|     |                                                                                                                                           |                                | IS 5887(6):2012, RA 2018                                    | ≥ 10 cfu/g                             |
|     |                                                                                                                                           | <i>Listeria monocytogenes</i>  | ISO 11290-2:2017                                            | ≥ 10 cfu/g                             |
|     |                                                                                                                                           |                                | ISO 11290-1:1997                                            | Present/Absent/25g                     |
|     |                                                                                                                                           |                                | Chapter 10, FDA- BAM :2013                                  | Present/Absent/25g                     |
|     |                                                                                                                                           |                                | IS 14988(P1) : 2001 RA 2018                                 | Present/Absent/25g                     |
|     |                                                                                                                                           |                                | IS 14988(P2) : 2002 RA 2018                                 | ≥ 10 cfu/g                             |
|     |                                                                                                                                           | <i>Clostridium perfringens</i> | ISO 7937-2005                                               | ≥ 10 cfu/g                             |
|     |                                                                                                                                           | <i>Vibrio cholera</i>          | IS 5887 (P5) : 1976, RA 2018                                | Present/Absent/25g                     |
|     |                                                                                                                                           | <i>Vibrio parahaemolyticus</i> | IS 5887 (P5) : 1976, RA 2018                                | Present/Absent/25g                     |
|     |                                                                                                                                           | <i>Feacal Streptococci</i>     | IS 5887 P-2: 1976 RA 2018                                   | ≥ 10 cfu/g                             |
| 2.  | Milk and Dairy products, (Milk Powder, Paneer, Cheese, Raw Milk, Ice-cream, Curd, condensed Milk, desserts, butter, ghee and by products) | Aerobic Plate count            | ISO 4833-1:2013                                             | ≥ 10 cfu/g/ ≥ 1 cfu/ml                 |
|     |                                                                                                                                           |                                | USFDA BAM: Chapter 3: 2001                                  | ≥ 10 cfu/g/ml                          |
|     |                                                                                                                                           |                                | IS 5402:2012, RA 2018                                       | ≥ 10 cfu/g/ml                          |
|     |                                                                                                                                           | Enumeration of <i>E.coli</i>   | ISO 16649-2:2001                                            | ≥ 10 cfu/g/ml                          |
|     |                                                                                                                                           |                                | USFDA BAM: Chapter 4: 2013                                  | <3 to >1100MPN/g                       |
|     |                                                                                                                                           |                                | IS 5887 (P1):1976, RA 2018                                  | Present/Absent/g                       |

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|-----|----------------------------|-------------------------------|-------------------------------------------------------------|----------------------------------------|
|     |                            | Enumeration of Coliforms      | ISO 4832-2006                                               | ≥ 10 cfu/g                             |
|     |                            |                               | USFDA BAM: Chapter 4: 2013                                  | <3 to >1100MPN/g                       |
|     |                            |                               |                                                             | ≥ 10 cfu/g                             |
|     |                            |                               | IS 5401(P1) :2012, RA 2018                                  | ≥ 10 cfu/g                             |
|     |                            | Enterobacteriaceae            | ISO 21528-2:2017                                            | ≥ 10 cfu/g                             |
|     |                            | <i>Shigella spp</i>           | IS 5887(P-7):1999, RA 2018                                  | Present/Absent/25g                     |
|     |                            | <i>S.aureus</i>               | ISO 6888-1:1999                                             | ≥ 10 cfu/g                             |
|     |                            |                               | USFDA BAM Chapter 12:2001                                   | ≥ 10 cfu/g                             |
|     |                            |                               | IS 5887(P8/SEC1):2002, RA 2018                              | ≥ 10 cfu/g                             |
|     |                            | <i>Salmonella spp</i>         | ISO 6579-1:2017                                             | Present/Absent/25g                     |
|     |                            |                               | US FDA- BAM:2014 Chapter 5                                  | Present/Absent/25g                     |
|     |                            |                               | IS 5887(P3):1999, RA 2018                                   | Present/Absent/25g                     |
|     |                            |                               | AOAC official method - 2004.03 (VIDAS)                      | Present/Absent/25g                     |
|     |                            | Enumeration of Yeast and Mold | ISO 21527-2:2008                                            | ≥ 10 cfu/g                             |
|     |                            |                               | ISO 21527-1:2008                                            | ≥ 10 cfu/g                             |
|     |                            |                               | USFDA BAM: Chapter 18:2001                                  | ≥ 10 cfu/g                             |
|     |                            |                               | IS 5403:1999, RA 2018                                       | ≥ 10 cfu/g                             |
|     |                            | <i>B. Cereus</i>              | ISO 7932-2005                                               | ≥ 10 cfu/g                             |
|     |                            |                               | USFDA BAM: Chapter 14 :2012                                 | ≥ 10 cfu/g                             |
|     |                            |                               | IS 5887(6):2012, RA 2018                                    | ≥ 10 cfu/g                             |
|     |                            | <i>Listeria monocytogenes</i> | ISO 11290-2:2017                                            | ≥ 10 cfu/g                             |
|     |                            |                               | ISO 11290-1:2017                                            | Present/Absent/25g                     |

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|-----|-----------------------------------------|--------------------------------|-------------------------------------------------------------|----------------------------------------|
|     |                                         |                                | FDA- BAM : 2013 Chapter 10                                  | Present/Absent/25g                     |
|     |                                         |                                | IS 14988(P1) : 2001 RA 2018                                 | Present/Absent/25g                     |
|     |                                         |                                | IS 14988(P2) : 2002 RA 2018                                 | ≥ 10 cfu/g                             |
|     |                                         |                                | AOAC official methods 2004.02(VIDAS)                        | Present/Absent/25g                     |
|     |                                         | <i>Clostridium perfringens</i> | ISO 7937-2005                                               | ≥ 10 cfu/g                             |
|     |                                         | <i>Vibrio cholera</i>          | IS 5887 (P5) : 1976, RA 2018                                | Present/Absent/25g                     |
|     |                                         | <i>Vibrio parahaemolyticus</i> | IS 5887 (P5) : 1976, RA 2018                                | Present/Absent/25g                     |
|     |                                         | <i>Faecal Streptococci</i>     | IS 5887 P-2: 1976, RA 2018                                  | ≥ 10 cfu/g                             |
|     |                                         | Lactic Acid bacteria           | ISO 15214:1998                                              | ≥ 10 cfu/g                             |
| 3.  | Snacks & Instant mixes (Namkeen, Chips) | Aerobic Plate count            | ISO 4833-1: 2013                                            | ≥ 10 cfu/g                             |
|     |                                         |                                | USFDA BAM: Chapter 3 : 2001                                 | ≥ 10 cfu/g                             |
|     |                                         |                                | IS 5402:2012, RA 2018                                       | ≥ 10 cfu/g                             |
|     |                                         | Enumeration of <i>E.coli</i>   | ISO 16649-2:2001                                            | ≥ 10 cfu/g                             |
|     |                                         |                                | USFDA BAM: Chapter 4: 2013                                  | <3 to >1100MPN/g                       |
|     |                                         |                                | IS 5887 (P1):1976, RA 2018                                  | Present/Absent/g                       |
|     |                                         | Enumeration of Coliforms       | ISO 4832-2006                                               | ≥ 10 cfu/g                             |
|     |                                         |                                | USFDA BAM: Chapter 4: 2013                                  | <3 to >1100MPN/g                       |
|     |                                         |                                | IS 5401(P1) :2012, RA 2018                                  | ≥ 10 cfu/g                             |
|     |                                         | Enterobacteriaceae             | ISO 21528-2:2017                                            | ≥ 10 cfu/g                             |
|     |                                         | <i>Shigella spp</i>            | IS 5887(P-7):1999, RA 2018                                  | Present/Absent/25g                     |

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|-----|----------------------------|--------------------------------|-------------------------------------------------------------|----------------------------------------|
|     |                            | <i>S.aureus</i>                | ISO 6888-1:1999                                             | ≥ 10 cfu/g                             |
|     |                            |                                | USFDA BAM Chapter 12:2001                                   | ≥ 10 cfu/g                             |
|     |                            |                                | IS 5887(P8/SEC1):2002, RA 2018                              | ≥ 10 cfu/g                             |
|     |                            | <i>Salmonella spp</i>          | ISO 6579-1:2017                                             | Present/Absent/25g                     |
|     |                            |                                | US FDA- BAM :2014 Chapter 5                                 | Present/Absent/25g                     |
|     |                            |                                | IS 5887(P3):1999, RA 2018                                   | Present/Absent/25g                     |
|     |                            | Enumeration of Yeast and Mold  | ISO 21527-2:2008                                            | ≥ 10 cfu/g                             |
|     |                            |                                | ISO 21527-1:2008                                            | ≥ 10 cfu/g                             |
|     |                            |                                | USFDA BAM: Chapter 18:2001                                  | ≥ 10 cfu/g                             |
|     |                            |                                | IS 5403:1999, RA 2018                                       | ≥ 10 cfu/g                             |
|     |                            | <i>B.cereus</i>                | ISO 7932-2005                                               | ≥ 10 cfu/g                             |
|     |                            |                                | USFDA BAM: Chapter 14 :2012                                 | ≥ 10 cfu/g                             |
|     |                            |                                | IS 5887(6):2012, RA 2018                                    | ≥ 10 cfu/g                             |
|     |                            | <i>Listeria monocytogenes</i>  | ISO 11290-2:2017                                            | ≥ 10 cfu/g                             |
|     |                            |                                | ISO 11290-1:2017                                            | Present/Absent/25g                     |
|     |                            |                                | USFDA- BAM: 2013 Chapter 10                                 | Present/Absent/25g                     |
|     |                            |                                | IS 14988(P1) : 2001 RA 2018                                 | Present/Absent/25g                     |
|     |                            |                                | IS 14988(P2) : 2002 RA 2018                                 | ≥ 10 cfu/g                             |
|     |                            | <i>Clostridium perfringens</i> | ISO 7937-2005                                               | ≥ 10 cfu/g                             |
|     |                            | <i>Vibrio cholera</i>          | IS 5887 (P5) : 1976, RA 2018                                | Present/Absent/25g                     |
|     |                            | <i>Vibrio parahaemolyticus</i> | IS 5887 (P5) : 1976, RA 2018                                | Present/Absent/25g                     |

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|-----|----------------------------|-------------------------------|-------------------------------------------------------------|----------------------------------------|
|     |                            | <i>Feacal Streptococci</i>    | IS 5887 P-2: 1976, RA 2018                                  | ≥ 10 cfu/g                             |
| 4.  | Animal feed                | Aerobic Plate count           | ISO 4833-1:2013<br>USFDA BAM: Chapter 3: 2001               | ≥ 10 cfu/g<br>≥ 10 cfu/g               |
|     |                            | Enumeration of <i>E.coli</i>  | IS 5402:2012, RA 2018<br>ISO 16649-2:2001                   | ≥ 10 cfu/g<br>≥ 10 cfu/g               |
|     |                            | Enumeration of Coliforms      | USFDA BAM: Chapter 4: 2013<br>IS 5887 (P1):1976, RA 2018    | <3 to >1100MPN/g<br>Present/Absent/g   |
|     |                            | Enterobacteriaceae            | ISO 4832-2006                                               | ≥ 10 cfu/g                             |
|     |                            | <i>Shigella spp</i>           | USFDA BAM: Chapter 4: 2013<br>IS 5401(P1) :2012, RA 2018    | <3 to >1100MPN/g<br>≥ 10 cfu/g         |
|     |                            | <i>S.aureus</i>               | ISO 21528-2:2017<br>IS 5887(P-7):1999, RA 2018              | ≥ 10 cfu/g<br>Present/Absent/25g       |
|     |                            |                               | ISO 6888-1:1999                                             | ≥ 10 cfu/g                             |
|     |                            |                               | USFDA BAM Chapter 12:2001                                   | ≥ 10 cfu/g                             |
|     |                            |                               | IS 5887(P8/SEC1):2002, RA 2018                              | ≥ 10 cfu/g                             |
|     |                            | <i>Salmonella spp</i>         | ISO 6579-1:2017                                             | Present/Absent/25g                     |
|     |                            |                               | US FDA- BAM:2014 Chapter 5                                  | Present/Absent/25g                     |
|     |                            |                               | IS 5887(P3):1999, RA 2018                                   | Present/Absent/25g                     |
|     |                            | Enumeration of Yeast and Mold | ISO 21527-2:2008<br>ISO 21527-1:2008                        | ≥ 10 cfu/g<br>≥ 10 cfu/g               |

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|-----|------------------------------------------------|--------------------------------|-------------------------------------------------------------|----------------------------------------|
|     |                                                |                                | USFDA BAM: Chapter 18:2001                                  | ≥ 10 cfu/g                             |
|     |                                                |                                | IS 5403:1999, RA 2018                                       | ≥ 10 cfu/g                             |
|     |                                                | <i>B.cereus</i>                | ISO 7932:2005                                               | ≥ 10 cfu/g                             |
|     |                                                |                                | USFDA BAM: Chapter 14:2012                                  | ≥ 10 cfu/g                             |
|     |                                                |                                | IS 5887(6):2012, RA 2018                                    | ≥ 10 cfu/g                             |
|     |                                                | <i>Listeria monocytogenes</i>  | ISO 11290-2:2017                                            | ≥ 10 cfu/g                             |
|     |                                                |                                | ISO 11290-1:2017                                            | Present/Absent/25g                     |
|     |                                                |                                | Chapter 10, FDA- BAM: 2013                                  | Present/Absent/25g                     |
|     |                                                |                                | IS 14988 (P1) : 2001 RA 2018                                | Present/Absent/25g                     |
|     |                                                |                                | IS 14988 (P2) : 2002 RA 2018                                | ≥ 10 cfu/g                             |
|     |                                                | <i>Clostridium perfringens</i> | ISO 7937-2005                                               | ≥ 10 cfu/g                             |
|     |                                                | <i>Vibrio cholera</i>          | IS 5887 (P5) : 1976, RA 2018                                | Present/Absent/25g                     |
|     |                                                | <i>Vibrio parahaemolyticus</i> | IS 5887 (P5) : 1976, RA 2018                                | Present/Absent/25g                     |
|     |                                                | <i>Feacal Streptococci</i>     | IS 5887 P-2: 1976, RA 2018                                  | ≥ 10 cfu/g                             |
| 5.  | Fish & Sea foods (crustaceans and cephalopods) | Lactic Acid bacteria           | ISO 15214:1998                                              | ≥ 10 cfu/g                             |
|     |                                                | Aerobic Plate count            | ISO 4833-1:2013                                             | ≥ 10 cfu/g                             |
|     |                                                |                                | USFDA BAM: Chapter 3: 2001                                  | ≥ 10 cfu/g                             |
|     |                                                |                                | IS 5402:2012, RA 2018                                       | ≥ 10 cfu/g                             |
|     |                                                | Enumeration of <i>E.coli</i>   | ISO 16649-2:2001                                            | ≥ 10 cfu/g                             |
|     |                                                |                                | USFDA BAM: Chapter 4: 2013                                  | <3 to >1100MPN/g                       |
|     |                                                |                                | IS 5887 (P1):1976, RA 2018                                  | Present/Absent/g                       |

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|-----|----------------------------|-------------------------------|-------------------------------------------------------------|----------------------------------------|
|     |                            | Enumeration of Coliforms      | ISO 4832-2006                                               | ≥ 10 cfu/g                             |
|     |                            |                               | USFDA BAM: Chapter 4: 2013                                  | <3 to >1100MPN/g                       |
|     |                            |                               |                                                             | ≥ 10 cfu/g                             |
|     |                            |                               | IS 5401(P1) :2012, RA 2018                                  | ≥ 10 cfu/g                             |
|     |                            | Enterobacteriaceae            | ISO 21528-2:2017                                            | ≥ 10 cfu/g                             |
|     |                            | <i>Shigella spp</i>           | IS 5887(P-7):1999, RA 2018                                  | Present/Absent/25g                     |
|     |                            | <i>S.aureus</i>               | ISO 6888-1:1999                                             | ≥ 10 cfu/g                             |
|     |                            |                               | USFDA BAM Chapter 12:2001                                   | ≥ 10 cfu/g                             |
|     |                            |                               | IS 5887(P8/SEC1):2002, RA 2018                              | ≥ 10 cfu/g                             |
|     |                            | <i>Salmonella spp</i>         | ISO 6579-1:2017                                             | Present/Absent/25g                     |
|     |                            |                               | USFDA- BAM:2014 Chapter 5                                   | Present/Absent/25g                     |
|     |                            |                               | IS 5887(P3):1999, RA 2018                                   | Present/Absent/25g                     |
|     |                            | Enumeration of Yeast and Mold | ISO 21527-2:2008                                            | ≥ 10 cfu/g                             |
|     |                            |                               | ISO 21527-1:2008                                            | ≥ 10 cfu/g                             |
|     |                            |                               | USFDA BAM: Chapter 18:2001                                  | ≥ 10 cfu/g                             |
|     |                            |                               | IS 5403:1999, RA 2018                                       | ≥ 10 cfu/g                             |
|     |                            | <i>B.cereus</i>               | ISO 7932-2005                                               | ≥ 10 cfu/g                             |
|     |                            |                               | USFDA BAM: Chapter 14:2012                                  | ≥ 10 cfu/g                             |
|     |                            |                               | IS 5887(6):2012, RA 2018                                    | ≥ 10 cfu/g                             |
|     |                            | <i>Listeria monocytogenes</i> | ISO 11290-2:2017                                            | ≥ 10 cfu/g                             |
|     |                            |                               | ISO 11290-1:2017                                            | Present/Absent/25g                     |
|     |                            |                               | Chapter 10, FDA- BAM: 2013                                  | Present/Absent/25g                     |
|     |                            |                               | IS 14988 (P1) : 2001, RA 2018                               | Present/Absent/25g                     |

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|-----|---------------------------------|--------------------------------|-------------------------------------------------------------|----------------------------------------|
|     |                                 |                                | IS 14988 (P2) : 2002, RA 2018                               | ≥ 10 cfu/g                             |
|     |                                 | <i>Clostridium perfringens</i> | ISO 7937-2005                                               | ≥ 10 cfu/g                             |
|     |                                 | <i>Vibrio cholerae</i>         | IS 5887 (P5) : 1976, RA 2018                                | Present/Absent/25g                     |
|     |                                 | <i>Vibrio parahaemolyticus</i> | IS 5887 (P5) : 1976, RA 2018                                | Present/Absent/25g                     |
| 6.  | Fruits, vegetables and Products | <i>Faecal Streptococci</i>     | IS 5887 P-2: 1976, RA 2018                                  | ≥ 10 cfu/g                             |
|     |                                 | Aerobic Plate count            | ISO 4833-1:2013                                             | ≥ 10 cfu/g                             |
|     |                                 |                                | USFDA BAM: Chapter 3: 2001                                  | ≥ 10 cfu/g                             |
|     |                                 |                                | IS 5402:2012, RA 2018                                       | ≥ 10 cfu/g                             |
|     |                                 | Enumeration of <i>E.coli</i>   | ISO 16649-2:2001                                            | ≥ 10 cfu/g                             |
|     |                                 |                                | USFDA BAM: Chapter 4: 2013                                  | <3 to >1100MPN/g                       |
|     |                                 |                                | IS 5887 (P1):1976, RA 2018                                  | Present/Absent/g                       |
|     |                                 | Enumeration of Coliforms       | ISO4832-2006                                                | ≥ 10 cfu/g                             |
|     |                                 |                                | USFDA BAM: Chapter 4: 2013                                  | <3 to >1100MPN/g                       |
|     |                                 |                                | IS 5401(P1) :2012, RA 2018                                  | ≥ 10 cfu/g                             |
|     |                                 | Enterobacteriaceae             | ISO 21528-2:2017                                            | ≥ 10 cfu/g                             |
|     |                                 | <i>Shigella spp</i>            | IS 5887(P-7):1999, RA 2018                                  | Present/Absent/25g                     |
|     |                                 | <i>S.aureus</i>                | ISO 6888-1:1999                                             | ≥ 10 cfu/g                             |
|     |                                 |                                | USFDA BAM Chapter 12:2001                                   | ≥ 10 cfu/g                             |
|     |                                 |                                | IS 5887(P8/SEC1):2002, RA 2018                              | ≥ 10 cfu/g                             |
|     |                                 | <i>Salmonella spp</i>          | ISO 6579-1:2017                                             | Present/Absent/25g                     |
|     |                                 |                                | Chapter 5, US FDA-BAM:2014                                  | Present/Absent/25g                     |

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| Sl. | Product / Material of Test | Specific Test Performed           | Test Method Specification against which tests are performed | Range of Testing / Limits of Detection |
|-----|----------------------------|-----------------------------------|-------------------------------------------------------------|----------------------------------------|
|     |                            |                                   | IS 5887(P3):1999, RA 2018                                   | Present/Absent/25g                     |
|     |                            | Enumeration of Yeast and Mold     | ISO 21527-2:2008                                            | ≥ 10 cfu/g                             |
|     |                            |                                   | ISO 21527-1:2008                                            | ≥ 10 cfu/g                             |
|     |                            |                                   | USFDA BAM: Chapter 18:2001                                  | ≥ 10 cfu/g                             |
|     |                            |                                   | IS 5403:1999, RA 2018                                       | ≥ 10 cfu/g                             |
|     |                            | <i>B.cereus</i>                   | ISO 7932-2005                                               | ≥ 10 cfu/g                             |
|     |                            |                                   | USFDA BAM: Chapter 14:2012                                  | ≥ 10 cfu/g                             |
|     |                            |                                   | IS 5887(6):2012, RA 2018                                    | ≥ 10 cfu/g                             |
|     |                            | <i>Listeria monocytogenes</i>     | ISO 11290-2:2017                                            | ≥ 10 cfu/g                             |
|     |                            |                                   | ISO 11290-1:2017                                            | Present/Absent/25g                     |
|     |                            |                                   | FDA- BAM : 2013 Chapter 10                                  | Present/Absent/25g                     |
|     |                            |                                   | IS 14988(P1) : 2001 RA 2018                                 | Present/Absent/25g                     |
|     |                            |                                   | IS 14988(P2) : 2002 RA 2018                                 | ≥ 10 cfu/g                             |
|     |                            | <i>Clostridium perfringens</i>    | ISO 7937-2005                                               | ≥ 10 cfu/g                             |
|     |                            | <i>Vibrio cholera</i>             | IS 5887 (P5) : 1976, RA 2018                                | Present/Absent/25g                     |
|     |                            | <i>Vibrio parahaemolyticus</i>    | IS 5887 (P5) : 1976, RA 2018                                | Present/Absent/25g                     |
|     |                            | <i>Feacal Streptococci</i>        | IS 5887 P-2: 1976, RA 2018                                  | ≥ 10 cfu/g                             |
|     |                            | Lactic Acid bacteria              | ISO 15214:1998                                              | ≥ 10 cfu/g                             |
|     |                            | Mesophilic aerobic spore former   | APHA 4 <sup>th</sup> edition, chapter 22                    | ≥1 spores /gm.                         |
|     |                            | Mesophilic Anaerobic spore former | APHA 4 <sup>th</sup> ed. Chapter-23/FSSAI Manual            | ≥10 spores /gm.                        |

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| Sl. | Product / Material of Test                                           | Specific Test Performed              | Test Method Specification against which tests are performed | Range of Testing / Limits of Detection |
|-----|----------------------------------------------------------------------|--------------------------------------|-------------------------------------------------------------|----------------------------------------|
|     |                                                                      | Thermophilic Flat sour spore formers | APHA 4 <sup>th</sup> ed. Chapter-25/FSSAI Manual            | ≥5 spores/10 gm.                       |
|     |                                                                      | Aciduric Flat sour spore formers     | APHA 4 <sup>th</sup> ed. Chapter-24/FSSAI Manual            | ≥1 spores /gm                          |
|     |                                                                      | Alicyclobacillus                     | IFU method no-12                                            | Present/Absent/g                       |
|     |                                                                      | Guaicol producing bacteria           | IFU method no-12                                            | Present/Absent/g                       |
| 7.  | Meat and Meat Products (Sheep, Goat, Buffalo, Pig, Hen Poultry Meat) | Aerobic Plate count                  | ISO 4833-1:2013                                             | ≥ 10 cfu/g                             |
|     |                                                                      |                                      | USFDA BAM: Chapter 3: 2001                                  | ≥ 10 cfu/g                             |
|     |                                                                      |                                      | IS 5402:2012, RA 2018                                       | ≥ 10 cfu/g                             |
|     |                                                                      | Enumeration of <i>E.coli</i>         | ISO16649-2:2001                                             | ≥ 10 cfu/g                             |
|     |                                                                      |                                      | USFDA BAM: Chapter 4: 2013                                  | <3 to >1100MPN/g                       |
|     |                                                                      |                                      | IS 5887 (P1):1976, RA 2018                                  | Present/Absent/g                       |
|     |                                                                      | Enumeration of Coliforms             | ISO 4832-2006                                               | ≥ 10 cfu/g                             |
|     |                                                                      |                                      | USFDA BAM: Chapter 4: 2013                                  | <3 to >1100MPN/g                       |
|     |                                                                      |                                      | IS 5401(P1) :2012, RA 2018                                  | ≥ 10 cfu/g                             |
|     |                                                                      | Enterobacteriaceae                   | ISO 21528-2:2017                                            | ≥ 10 cfu/g                             |
|     |                                                                      | <i>Shigella spp</i>                  | IS 5887(P-7):1999, RA 2018                                  | Present/Absent/25g                     |
|     |                                                                      | <i>S.aureus</i>                      | ISO 6888-1:1999                                             | ≥ 10 cfu/g                             |
|     |                                                                      |                                      | USFDA BAM Chapter 12 :2001                                  | ≥ 10 cfu/g                             |
|     |                                                                      |                                      | IS 5887(P8/SEC1):2002, RA 2012                              | ≥ 10 cfu/g                             |
|     |                                                                      | <i>Salmonella spp</i>                | ISO 6579-1:2017                                             | Present/Absent/25g                     |
|     |                                                                      |                                      | USFDA- BAM:2014 Chapter 5                                   | Present/Absent/25g                     |

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| Sl. | Product / Material of Test        | Specific Test Performed        | Test Method Specification against which tests are performed | Range of Testing / Limits of Detection |
|-----|-----------------------------------|--------------------------------|-------------------------------------------------------------|----------------------------------------|
|     |                                   |                                | IS 5887(P3):1999, RA 2018                                   | Present/Absent/25g                     |
|     |                                   | Enumeration of Yeast and Mold  | ISO 21527-2:2008                                            | ≥ 10 cfu/g                             |
|     |                                   |                                | ISO 21527-1:2008                                            | ≥ 10 cfu/g                             |
|     |                                   |                                | USFDA BAM: Chapter 18:2001                                  | ≥ 10 cfu/g                             |
|     |                                   |                                | IS 5403:1999, RA 2018                                       | ≥ 10 cfu/g                             |
|     |                                   | <i>B.cereus</i>                | ISO 7932-2005                                               | ≥ 10 cfu/g                             |
|     |                                   |                                | USFDA BAM: Chapter 14:2012                                  | ≥ 10 cfu/g                             |
|     |                                   |                                | IS 5887(6):2012, RA 2018                                    | ≥ 10 cfu/g                             |
|     |                                   | <i>Listeria monocytogenes</i>  | ISO 11290-2:2017                                            | ≥ 10 cfu/g                             |
|     |                                   |                                | ISO 11290-1:1997                                            | Present/Absent/25g                     |
|     |                                   |                                | Chapter 10, FDA- BAM: 2013                                  | Present/Absent/25g                     |
|     |                                   |                                | IS 14988(P1) : 2001 RA 2018                                 | Present/Absent/25g                     |
|     |                                   |                                | IS 14988(P2) : 2002 RA 2018                                 | ≥ 10 cfu/g                             |
|     |                                   | <i>Clostridium perfringens</i> | ISO 7937-2005                                               | ≥ 10 cfu/g                             |
|     |                                   | <i>Vibrio cholera</i>          | IS 5887 (P5) : 1976, RA 2018                                | Present/Absent/25g                     |
|     |                                   | <i>Vibrio parahaemolyticus</i> | IS 5887 (P5) : 1976, RA 2018                                | Present/Absent/25g                     |
|     |                                   | <i>Feacal Streptococci</i>     | IS 5887 P-2: 1976, RA 2018                                  | ≥ 10 cfu/g                             |
|     |                                   | Lactic Acid bacteria           | ISO 15214:1998                                              | ≥ 10 cfu/g                             |
| 8.  | Cereals, Pulses & Cereal Products | Aerobic Plate count            | ISO 4833-1:2013                                             | ≥ 10 cfu/g                             |
|     |                                   |                                | USFDA BAM: Chapter 3: 2001                                  | ≥ 10 cfu/g                             |
|     |                                   |                                | IS 5402:2012, RA 2018                                       | ≥ 10 cfu/g                             |
|     |                                   | Enumeration of <i>E.coli</i>   | ISO 16649-2:2001                                            | ≥ 10 cfu/g                             |

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| Sl. | Product / Material of Test | Specific Test Performed       | Test Method Specification against which tests are performed | Range of Testing / Limits of Detection |
|-----|----------------------------|-------------------------------|-------------------------------------------------------------|----------------------------------------|
|     |                            |                               | USFDA BAM: Chapter 4: 2013                                  | <3 to >1100MPN/g                       |
|     |                            |                               | IS 5887 (P1):1976, RA 2018                                  | Present/Absent/g                       |
|     |                            | Enumeration of Coliforms      | ISO 4832-2006                                               | ≥ 10 cfu/g                             |
|     |                            |                               | USFDA BAM: Chapter 4: 2013                                  | <3 to >1100MPN/g                       |
|     |                            |                               | IS 5401(P1) :2012, RA 2018                                  | ≥ 10 cfu/g                             |
|     |                            | Enterobacteriaceae            | ISO 21528-2:2017                                            | ≥ 10 cfu/g                             |
|     |                            | <i>Shigella spp</i>           | IS 5887(P-7):1999, RA 2018                                  | Present/Absent/25g                     |
|     |                            | <i>S.aureus</i>               | ISO 6888-1:1999                                             | ≥ 10 cfu/g                             |
|     |                            |                               | USFDA BAM Chapter 12:2001                                   | ≥ 10 cfu/g                             |
|     |                            |                               | IS 5887(P8/SEC1):2002, RA 2018                              | ≥ 10 cfu/g                             |
|     |                            | <i>Salmonella spp</i>         | ISO 6579-1:2017                                             | Present/Absent/25g                     |
|     |                            |                               | USFDA- BAM:2014 Chapter 5                                   | Present/Absent/25g                     |
|     |                            |                               | IS 5887(P3):1999, RA 2018                                   | Present/Absent/25g                     |
|     |                            |                               | AOAC official method - 996.08,2004.03 (VIDAS)               | Present/Absent/25g                     |
|     |                            | Enumeration of Yeast and Mold | ISO 21527-2:2008                                            | ≥ 10 cfu/g                             |
|     |                            |                               | ISO 21527-1:2008                                            | ≥ 10 cfu/g                             |
|     |                            |                               | USFDA BAM: Chapter 18:2001                                  | ≥ 10 cfu/g                             |
|     |                            |                               | IS 5403:1999, RA 2018                                       | ≥ 10 cfu/g                             |
|     |                            | <i>B.cereus</i>               | ISO 7932-2005                                               | ≥ 10 cfu/g                             |
|     |                            |                               | USFDA BAM: Chapter 14:2012                                  | ≥ 10 cfu/g                             |

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|-----|----------------------------|--------------------------------|-------------------------------------------------------------|----------------------------------------|
|     |                            | <i>Listeria monocytogenes</i>  | IS 5887(6):2012, RA 2018                                    | ≥ 10 cfu/g                             |
|     |                            |                                | ISO 11290-2:2017                                            | ≥ 10 cfu/g                             |
|     |                            |                                | ISO 11290-1:2017                                            | Present/Absent/25g                     |
|     |                            |                                | USFDA- BAM: 2013 Chapter 10                                 | Present/Absent/25g                     |
|     |                            |                                | IS 14988(P1): 2001 RA 2018                                  | Present/Absent/25g                     |
|     |                            |                                | IS 14988(P2): 2002 RA 2018                                  | ≥ 10 cfu/g                             |
|     |                            | <i>Clostridium perfringens</i> | ISO7937-2005                                                | ≥ 10 cfu/g                             |
|     |                            | <i>Vibrio cholera</i>          | IS 5887 (P5): 1976, RA 2018                                 | Present/Absent/25g                     |
|     |                            | <i>Vibrio parahaemolyticus</i> | IS 5887 (P5): 1976, RA 2018                                 | Present/Absent/25g                     |
| 9.  | Tea, Coffee and products   | <i>Feacal Streptococci</i>     | IS 5887 P-2: 1976, RA 2018                                  | ≥ 10 cfu/g                             |
|     |                            | Aerobic Plate count            | ISO 4833-1:2013                                             | ≥ 10 cfu/g                             |
|     |                            |                                | USFDA BAM: Chapter 3: 2001                                  | ≥ 10 cfu/g                             |
|     |                            |                                | IS 5402:2012, RA 2018                                       | ≥ 10 cfu/g                             |
|     |                            | Enumeration of <i>E.coli</i>   | ISO 16649-2:2001                                            | ≥ 10 cfu/g                             |
|     |                            |                                | USFDA BAM: Chapter 4: 2013                                  | <3 to >1100MPN/g                       |
|     |                            |                                | IS 5887 (P1):1976, RA 2018                                  | Present/Absent/g                       |
|     |                            | Enumeration of Coliforms       | ISO 4832-2006                                               | ≥ 10 cfu/g                             |
|     |                            |                                | USFDA BAM: Chapter 4: 2013                                  | <3 to >1100MPN/g                       |
|     |                            |                                | IS 5401(P1) :2012, RA 2018                                  | ≥ 10 cfu/g                             |
|     |                            | Enterobacteriaceae             | ISO 21528-2:2017                                            | ≥ 10 cfu/g                             |
|     |                            | <i>Shigella spp</i>            | IS 5887(P-7):1999, RA 2018                                  | Present/Absent/25g                     |

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|-----|----------------------------|--------------------------------|-------------------------------------------------------------|----------------------------------------|
|     |                            | <i>S. aureus</i>               | ISO 6888-1:1999                                             | ≥ 10 cfu/g                             |
|     |                            |                                | USFDA BAM Chapter 12:2001                                   | ≥ 10 cfu/g                             |
|     |                            |                                | IS 5887 (P8/SEC1):2002, RA 2018                             | ≥ 10 cfu/g                             |
|     |                            | <i>Salmonella spp</i>          | ISO 6579-1:2017                                             | Present/Absent/25g                     |
|     |                            |                                | USFDA- BAM:2014 Chapter 5                                   | Present/Absent/25g                     |
|     |                            |                                | IS 5887(P3):1999, RA 2018                                   | Present/Absent/25g                     |
|     |                            | Enumeration of Yeast and Mold  | ISO 21527-2:2008                                            | ≥ 10 cfu/g                             |
|     |                            |                                | ISO 21527-1:2008                                            | ≥ 10 cfu/g                             |
|     |                            |                                | USFDA BAM: Chapter 18:2001                                  | ≥ 10 cfu/g                             |
|     |                            |                                | IS 5403:1999, RA 2018                                       | ≥ 10 cfu/g                             |
|     |                            | <i>B. Cereus</i>               | ISO 7932-2005                                               | ≥ 10 cfu/g                             |
|     |                            |                                | USFDA BAM: Chapter 14:2012                                  | ≥ 10 cfu/g                             |
|     |                            |                                | IS 5887(6):2012, RA 2018                                    | ≥ 10 cfu/g                             |
|     |                            | <i>Listeria monocytogenes</i>  | ISO 11290-2:2017                                            | ≥ 10 cfu/g                             |
|     |                            |                                | ISO 11290-1:2017                                            | Present/Absent/25g                     |
|     |                            |                                | USFDA BAM: 2013 Chapter 10,                                 | Present/Absent/25g                     |
|     |                            |                                | IS 14988(P1) : 2001 RA 2018                                 | Present/Absent/25g                     |
|     |                            |                                | IS 14988(P2) : 2002 RA 2018                                 | ≥ 10 cfu/g                             |
|     |                            | <i>Clostridium perfringens</i> | ISO 7937-2005                                               | ≥ 10 cfu/g                             |
|     |                            | <i>Vibrio cholera</i>          | IS 5887 (P5) : 1976, RA 2018                                | Present/Absent/25g                     |
|     |                            | <i>Vibrio parahaemolyticus</i> | IS 5887 (P5) : 1976, RA 2018                                | Present/Absent/25g                     |
|     |                            | <i>Feacal Streptococci</i>     | IS 5887 P-2: 1976, RA 2018                                  | ≥ 10 cfu/g                             |

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|-----|-------------------------------------------|-------------------------------|-------------------------------------------------------------|----------------------------------------|
| 10. | Infants foods (Milk based infant formula) | Aerobic Plate count           | ISO 4833-1:2013                                             | ≥ 10 cfu/g                             |
|     |                                           |                               | USFDA BAM: Chapter 3: 2001                                  | ≥ 10 cfu/g                             |
|     |                                           |                               | IS 5402:2012, RA 2018                                       | ≥ 10 cfu/g                             |
|     |                                           | Enumeration of <i>E.coli</i>  | ISO 16649-2:2001                                            | ≥ 10 cfu/g                             |
|     |                                           |                               | USFDA BAM: Chapter 4: 2013                                  | <3 to >1100MPN/g                       |
|     |                                           |                               | IS 5887 (P1):1976, RA 2018                                  | ≥ 10 cfu/g                             |
|     |                                           | Enumeration of Coliforms      | ISO 4832-2006                                               | ≥ 10 cfu/g                             |
|     |                                           |                               | USFDA BAM: Chapter 4: 2013                                  | <3 to >1100MPN/g                       |
|     |                                           |                               | IS 5401(P1) :2012, RA 2018                                  | ≥ 10 cfu/g                             |
|     |                                           | Enterobacteriaceae            | ISO 21528-2:2017                                            | ≥ 10 cfu/g                             |
|     |                                           | <i>Shigella spp</i>           | IS 5887(P-7):1999, RA 2009                                  | Present/Absent/25g                     |
|     |                                           | <i>S.aureus</i>               | ISO 6888-1:1999                                             | ≥ 10 cfu/g                             |
|     |                                           |                               | USFDA BAM Chapter 12:2001                                   | ≥ 10 cfu/g                             |
|     |                                           |                               | IS 5887(P8/SEC1):2002, RA 2018                              | ≥ 10 cfu/g                             |
|     |                                           | <i>Salmonella spp</i>         | ISO 6579-1:2017                                             | Present/Absent/25g                     |
|     |                                           |                               | USFDA- BAM:2014 Chapter 5                                   | Present/Absent/25g                     |
|     |                                           |                               | IS 5887(P3):1999, RA 2018                                   | Present/Absent/25g                     |
|     |                                           |                               | AOAC official method - 2004.03(VIDAS)                       | Present/Absent/25g                     |
|     |                                           | Enumeration of Yeast and Mold | ISO 21527-2:2008                                            | ≥ 10 cfu/g                             |
|     |                                           |                               | ISO 21527-1:2008                                            | ≥ 10 cfu/g                             |
|     |                                           |                               | USFDA BAM: Chapter 18:2001                                  | ≥ 10 cfu/g                             |
|     |                                           |                               | IS 5403:1999, RA 2018                                       | ≥ 10 cfu/g                             |

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|-----|------------------------------------------------------------------|--------------------------------|-------------------------------------------------------------|----------------------------------------|
|     |                                                                  | <i>B. cereus</i>               | ISO 7932-2005                                               | ≥ 10 cfu/g                             |
|     |                                                                  |                                | USFDA BAM: Chapter 14:2012                                  | ≥ 10 cfu/g                             |
|     |                                                                  |                                | IS 5887(6):2012, RA 2018                                    | ≥ 10 cfu/g                             |
|     |                                                                  | <i>Listeria monocytogenes</i>  | ISO 11290-2:2017                                            | ≥ 10 cfu/g                             |
|     |                                                                  |                                | ISO 11290-1:2017                                            | Present/Absent/25g                     |
|     |                                                                  |                                | US FDA- BAM: 2013 Chapter 10                                | Present/Absent/25g                     |
|     |                                                                  |                                | IS 14988(P1) : 2001 RA 2018                                 | Present/Absent/25g                     |
|     |                                                                  |                                | IS 14988(P2) : 2002 RA 2018                                 | ≥ 10 cfu/g                             |
|     |                                                                  |                                | AOAC official methods 2004.02 (VIDAS)                       | Present/Absent/25g                     |
|     |                                                                  | <i>Clostridium perfringens</i> | ISO 7937-2005                                               | ≥ 10 cfu/g                             |
|     |                                                                  | <i>Vibrio cholera</i>          | IS 5887 (P5) : 1976, RA 2018                                | Present/Absent/25g                     |
|     |                                                                  | <i>Vibrio parahaemolyticus</i> | IS 5887 (P5) : 1976, RA 2018                                | Present/Absent/25g                     |
|     |                                                                  | <i>Feacal Streptococci</i>     | IS 5887 P-2: 1976, RA 2018                                  | ≥ 10 cfu/g                             |
|     |                                                                  | Lactic Acid bacteria           | ISO 15214:1998                                              | ≥ 10 cfu/g                             |
| 11. | Bakery & Confectionery Products (Biscuit, Bread, Cookies, cakes) | Aerobic Plate count            | ISO 4833-1:2013                                             | ≥ 10 cfu/g                             |
|     |                                                                  |                                | USFDA BAM: Chapter 3: 2001                                  | ≥ 10 cfu/g                             |
|     |                                                                  |                                | IS 5402:2012, RA 2018                                       | ≥ 10 cfu/g                             |
|     |                                                                  | Enumeration of <i>E.coli</i>   | ISO 16649-2:2001                                            | ≥ 10 cfu/g                             |
|     |                                                                  |                                | USFDA BAM: Chapter 4: 2013                                  | <3 to >1100MPN/g                       |
|     |                                                                  |                                | IS 5887 (P1):1976, RA 2018                                  | ≥ 10 cfu/g                             |
|     |                                                                  | Enumeration of Coliforms       | ISO 4832-2006                                               | ≥ 10 cfu/g                             |
|     |                                                                  |                                | USFDA BAM: Chapter 4: 2013                                  | <3 to >1100MPN/g<br>≥ 10 cfu/g         |

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|-----|----------------------------|-------------------------------|-------------------------------------------------------------|----------------------------------------|
|     |                            |                               | IS 5401(P1) :2012, RA 2018                                  | ≥ 10 cfu/g                             |
|     |                            | Enterobacteriaceae            | ISO 21528-2:2017                                            | ≥ 10 cfu/g                             |
|     |                            | <i>Shigella spp</i>           | IS 5887(P-7):1999, RA 2018                                  | Present/Absent/25g                     |
|     |                            | <i>S.aureus</i>               | ISO 6888-1:1999                                             | ≥ 10 cfu/g                             |
|     |                            |                               | USFDA BAM Chapter 12:2001                                   | ≥ 10 cfu/g                             |
|     |                            |                               | IS 5887(P8/SEC1):2002, RA 2018                              | ≥ 10 cfu/g                             |
|     |                            | <i>Salmonella spp</i>         | ISO 6579-1:2017                                             | Present/Absent/25g                     |
|     |                            |                               | Chapter 5, USFDA-BAM:2014                                   | Present/Absent/25g                     |
|     |                            |                               | IS 5887(P3):1999, RA 2018                                   | Present/Absent/25g                     |
|     |                            |                               | AOAC official method - 2004.03 (VIDAS)                      | Present/Absent/25g                     |
|     |                            | Enumeration of Yeast and Mold | ISO 21527-2:2008                                            | ≥ 10 cfu/g                             |
|     |                            |                               | ISO 21527-1:2008                                            | ≥ 10 cfu/g                             |
|     |                            |                               | USFDA BAM: Chapter 18 :2001                                 | ≥ 10 cfu/g                             |
|     |                            |                               | IS 5403:1999, RA 2018                                       | ≥ 10 cfu/g                             |
|     |                            | <i>B. Cereus</i>              | ISO 7932-2005                                               | ≥ 10 cfu/g                             |
|     |                            |                               | USFDA BAM: Chapter 14:2012                                  | ≥ 10 cfu/g                             |
|     |                            |                               | IS 5887(6):2012, RA 2018                                    | ≥ 10 cfu/g                             |
|     |                            | <i>Listeria monocytogenes</i> | ISO11290-2:2017                                             | ≥ 10 cfu/g                             |
|     |                            |                               | ISO 11290-1:2017                                            | Present/Absent/25g                     |
|     |                            |                               | USFDA - BAM: Chapter 10, 2013                               | Present/Absent/25g                     |
|     |                            |                               | IS 14988(P1) : 2001 RA 2018                                 | Present/Absent/25g                     |
|     |                            |                               | IS 14988(P2) : 2002 RA 2018                                 | ≥ 10 cfu/g                             |

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| Sl. | Product / Material of Test               | Specific Test Performed        | Test Method Specification against which tests are performed | Range of Testing / Limits of Detection |
|-----|------------------------------------------|--------------------------------|-------------------------------------------------------------|----------------------------------------|
|     |                                          | <i>Clostridium perfringens</i> | ISO 7937-2005                                               | ≥ 10 cfu/g                             |
|     |                                          | <i>Vibrio cholera</i>          | IS 5887 (P5) : 1976, RA 2018                                | Present/Absent/25g                     |
|     |                                          | <i>Vibrio parahaemolyticus</i> | IS 5887 (P5) : 1976, RA 2018                                | Present/Absent/25g                     |
|     |                                          | <i>Faecal Streptococci</i>     | IS 5887 P-2: 1976, RA 2018                                  | ≥ 10 cfu/g                             |
| 12. | Canned & Processed Foods (Canned Fruits) | Aerobic Plate count            | ISO 4833-1:2013                                             | ≥ 10 cfu/g                             |
|     |                                          |                                | USFDA BAM: Chapter 3: 2001                                  | ≥ 10 cfu/g                             |
|     |                                          |                                | IS 5402:2012, RA 2018                                       | ≥ 10 cfu/g                             |
|     |                                          | Enumeration of <i>E.coli</i>   | ISO 16649-2:2001                                            | ≥ 10 cfu/g                             |
|     |                                          |                                | USFDA BAM: Chapter 4: 2013                                  | <3 to >1100MPN/g                       |
|     |                                          |                                | IS 5887 (P1):1976, RA 2018                                  | ≥ 10 cfu/g                             |
|     |                                          | Enumeration of Coliforms       | ISO 4832-2006                                               | ≥ 10 cfu/g                             |
|     |                                          |                                | USFDA BAM: Chapter 4: 2013                                  | <3 to >1100MPN/g                       |
|     |                                          |                                | IS 5401(P1) :2012, RA 2018                                  | ≥ 10 cfu/g                             |
|     |                                          | Enterobacteriaceae             | ISO 21528-2:2017                                            | ≥ 10 cfu/g                             |
|     |                                          | <i>Shigella spp</i>            | IS 5887(P-7):1999, RA 2009                                  | Present/Absent/25g                     |
|     |                                          | <i>S.aureus</i>                | ISO 6888-1:1999                                             | ≥ 10 cfu/g                             |
|     |                                          |                                | USFDA BAM Chapter 12:2001                                   | ≥ 10 cfu/g                             |
|     |                                          |                                | IS 5887(P8/SEC1):2002, RA 2018                              | ≥ 10 cfu/g                             |
|     |                                          | <i>Salmonella spp</i>          | ISO:6579-1:2017                                             | Present/Absent/25g                     |
|     |                                          |                                | Chapter 5, FDA- BAM:2014                                    | Present/Absent/25g                     |
|     |                                          |                                | IS 5887(P3):1999, RA 2018                                   | Present/Absent/25g                     |

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|-----|----------------------------|--------------------------------------|-------------------------------------------------------------|----------------------------------------|
|     |                            | Enumeration of Yeast and Mold        | ISO 21527-2:2008                                            | ≥ 10 cfu/g                             |
|     |                            |                                      | ISO 21527-1:2008                                            | ≥ 10 cfu/g                             |
|     |                            |                                      | USFDA BAM: Chapter 18:2001                                  | ≥ 10 cfu/g                             |
|     |                            |                                      | IS 5403:1999, RA 2018                                       | ≥ 10 cfu/g                             |
|     |                            | <i>B. Cereus</i>                     | ISO 7932-2005                                               | ≥ 10 cfu/g                             |
|     |                            |                                      | USFDA BAM: Chapter 14:2012                                  | ≥ 10 cfu/g                             |
|     |                            |                                      | IS 5887(6):2012, RA 2018                                    | ≥ 10 cfu/g                             |
|     |                            | <i>Listeria monocytogenes</i>        | ISO 11290-2:2017                                            | ≥ 10 cfu/g                             |
|     |                            |                                      | ISO 11290-1:2017                                            | Present/Absent/25g                     |
|     |                            |                                      | USFDA - BAM: 2013 Chapter 10                                | Present/Absent/25g                     |
|     |                            |                                      | IS 14988(P1) : 2001 RA 2018                                 | Present/Absent/25g                     |
|     |                            |                                      | IS 14988(P2) : 2002 RA 2018                                 | ≥ 10 cfu/g                             |
|     |                            | <i>Clostridium perfringens</i>       | ISO:7937-2005                                               | ≥ 10 cfu/g                             |
|     |                            | <i>Vibrio cholera</i>                | IS 5887 (P5) : 1976, RA 2018                                | Present/Absent/25g                     |
|     |                            | <i>Vibrio parahaemolyticus</i>       | IS 5887 (P5) : 1976, RA 2018                                | Present/Absent/25g                     |
|     |                            | <i>Faecal Streptococci</i>           | IS 5887 P-2: 1976, RA 2018                                  | ≥ 10 cfu/g                             |
|     |                            | Lactic Acid bacteria                 | ISO 15214:1998                                              | ≥ 10 cfu/g                             |
|     |                            | Mesophilic aerobic spore former      | APHA 4 <sup>th</sup> ed. chapter 22                         | ≥1 spores /gm.                         |
|     |                            | Mesophilic Anaerobic spore former    | APHA 4 <sup>th</sup> ed. Chapter-23/FSSAI Manual            | ≥10 spores /gm.                        |
|     |                            | Thermophilic Flat sour spore formers | APHA 4 <sup>th</sup> ed. Chapter-25/FSSAI Manual            | ≥5 spores/10 gm.                       |

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| Sl. | Product / Material of Test                                     | Specific Test Performed          | Test Method Specification against which tests are performed | Range of Testing / Limits of Detection |
|-----|----------------------------------------------------------------|----------------------------------|-------------------------------------------------------------|----------------------------------------|
|     |                                                                | Aciduric Flat sour spore formers | APHA 4 <sup>th</sup> ed. Chapter-24//FSSAI Manual           | ≥1 spores /gm                          |
|     |                                                                | <i>Alicyclobacillus</i>          | IFU method no-12                                            | Present/Absent/g                       |
|     |                                                                | Guaicol producing bacteria       | IFU method no-12                                            | Present/Absent/g                       |
| II. | <b>NUTRACEUTICALS AND FUNCTIONAL FOODS</b>                     |                                  |                                                             |                                        |
| 1   | <b>Nutraceuticals and Functional Foods (Heath Supplements)</b> | Aerobic Plate count              | ISO 4833-1:2013                                             | ≥ 10 cfu/g                             |
|     |                                                                |                                  | USFDA BAM: Chapter 3: 2001                                  | ≥ 10 cfu/g                             |
|     |                                                                |                                  | IS 5402:2012, RA 2018                                       | ≥ 10 cfu/g                             |
|     |                                                                | Enumeration of <i>E.coli</i>     | ISO 16649-2:2001                                            | ≥ 10 cfu/g                             |
|     |                                                                |                                  | USFDA BAM: Chapter 4: 2013                                  | <3 to >1100MPN/g                       |
|     |                                                                |                                  | IS 5887 (P1):1976, RA 2018                                  | Present/Absent/g                       |
|     |                                                                | Enumeration of Coliforms         | ISO 4832-2006                                               | ≥ 10 cfu/g                             |
|     |                                                                |                                  | USFDA BAM: Chapter 4: 2013                                  | <3 to >1100MPN/g                       |
|     |                                                                |                                  | IS 5401(P1) :2012, RA 2018                                  | ≥ 10 cfu/g                             |
|     |                                                                | Enterobacteriaceae               | ISO 21528-2:2017                                            | ≥ 10 cfu/g                             |
|     |                                                                | <i>Shigella spp</i>              | IS 5887(P-7):1999, RA 2009                                  | Present/Absent/25g                     |
|     |                                                                | <i>S.aureus</i>                  | ISO 6888-1:1999                                             | ≥ 10 cfu/g                             |
|     |                                                                |                                  | USFDA BAM Chapter 12: 2001                                  | ≥ 10 cfu/g                             |
|     |                                                                |                                  | IS 5887(P8/SEC1):2002, RA 2018                              | ≥ 10 cfu/g                             |
|     |                                                                | <i>Salmonella sps</i>            | ISO 6579-1:2017                                             | Present/Absent/25g                     |
|     |                                                                |                                  | Chapter 5, FDA- BAM:2014                                    | Present/Absent/25g                     |
|     |                                                                |                                  | IS 5887(P3):1999, RA 2018                                   | Present/Absent/25g                     |

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| Sl. | Product / Material of Test | Specific Test Performed        | Test Method Specification against which tests are performed | Range of Testing / Limits of Detection |
|-----|----------------------------|--------------------------------|-------------------------------------------------------------|----------------------------------------|
|     |                            | Enumeration of Yeast and Mold  | ISO 21527-2:2008                                            | ≥ 10 cfu/g                             |
|     |                            |                                | ISO 21527-1:2008                                            | ≥ 10 cfu/g                             |
|     |                            |                                | USFDA BAM: Chapter 18:2001                                  | ≥ 10 cfu/g                             |
|     |                            |                                | IS 5403:1999, RA 2018                                       | ≥ 10 cfu/g                             |
|     |                            | <i>B. Cereus</i>               | ISO 7932-2005                                               | ≥ 10 cfu/g                             |
|     |                            |                                | USFDA BAM: Chapter 14 :2012                                 | ≥ 10 cfu/g                             |
|     |                            |                                | IS 5887(6):2012, RA 2018                                    | ≥ 10 cfu/g                             |
|     |                            | <i>Listeria monocytogenes</i>  | ISO 11290-2:2017                                            | ≥ 10 cfu/g                             |
|     |                            |                                | ISO 11290-1:2017                                            | Present/Absent/25g                     |
|     |                            |                                | USFDA- BAM: 2013 Chapter 10                                 | Present/Absent/25g                     |
|     |                            |                                | IS 14988(P1) : 2001 RA 2018                                 | Present/Absent/25g                     |
|     |                            |                                | IS 14988(P2) : 2002 RA 2018                                 | ≥ 10 cfu/g                             |
|     |                            | <i>Clostridium perfringens</i> | ISO 7937-2005                                               | ≥ 10 cfu/g                             |
|     |                            | <i>Vibrio cholera</i>          | IS 5887 (P5) : 1976, RA 2018                                | Present/Absent/25g                     |
|     |                            | <i>Vibrio parahaemolyticus</i> | IS 5887 (P5) : 1976, RA 2018                                | Present/Absent/25g                     |
| III | WATER                      | <i>Feacal Streptococci</i>     | IS 5887 P-2: 1976, RA 2018                                  | ≥ 10 cfu/g                             |
|     |                            | <i>Lactic Acid bacteria</i>    | ISO 15214:1998                                              | ≥ 10 cfu/g                             |
|     |                            |                                |                                                             |                                        |
|     |                            |                                |                                                             |                                        |
| 1.  | Drinking water             | <i>Escherichia coli</i>        | IS 1622-1981 RA 2009                                        | <1MPN to >161MPN                       |
|     |                            | Coliforms                      | IS 1622-1981 RA 2009                                        | <1MPN to >161MPN                       |
|     |                            | Feacal coliforms               | IS 1622-1981 RA 2009                                        | <1MPN to >161MPN                       |

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|-----|--------------------------------|------------------------------------------|-------------------------------------------------------------|----------------------------------------|
| 2.  | Packaged Drinking Water        | TPC @ 37 <sup>o</sup> c                  | IS 5402 : 2012, RA 2018                                     | ≥1 cfu/ml                              |
|     |                                | TPC @ 22 <sup>o</sup> c                  | IS 5402 : 2012, RA 2018                                     | ≥1 cfu/ml                              |
|     |                                | <i>Escherichia coli</i>                  | IS 15185 :2016                                              | Present / Absent /250ml                |
|     |                                | Coliforms                                | IS 15185 :2016                                              | Present / Absent /250ml                |
|     |                                | <i>Feacal Streptococci</i>               | IS 15186:2002                                               | Present / Absent /250ml                |
|     |                                | <i>Salmonella</i>                        | IS 15187 : 2016                                             | Present / Absent /250ml                |
|     |                                | <i>Shigella</i>                          | IS 5887(7):1999 RA 2018                                     | Present / Absent /250ml                |
|     |                                | <i>Staphylococcus aureus</i>             | IS 15186:2002                                               | Present / Absent /250ml                |
|     |                                | Yeast and Mold                           | IS 5403:1999, RA 2018                                       | Present / Absent /250ml                |
|     |                                | <i>Pseudomonas</i>                       | IS 13428 Annex C ,2005 RA 2014                              | Present / Absent /50ml                 |
|     |                                | Sulphite reducing anaerobes (Clostridia) | IS 13428 Annex D, 2005 RA 2014                              | Present / Absent /50ml                 |
|     |                                | <i>Vibrio.cholerae</i>                   | IS 5887(5) : 1976 RA 2018                                   | Present / Absent /250ml                |
|     |                                | <i>Vibrio parahaemolyticus</i>           | IS 5887(5) :1976 RA 2018                                    | Present / Absent /250ml                |
| 3.  | Packaged Natural Mineral Water | <i>Escherichia coli</i>                  | IS 15185 :2002                                              | Present / Absent /250ml                |
|     |                                | Coliforms                                | IS 15185 :2002                                              | Present / Absent /250ml                |
|     |                                | <i>Feacal Streptococci</i>               | IS 15186:2002                                               | Present / Absent /250ml                |
|     |                                | <i>Salmonella</i>                        | IS 15187 : 2002, RA 2009                                    | Present / Absent /250ml                |

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| Sl. | Product / Material of Test | Specific Test Performed                   | Test Method Specification against which tests are performed | Range of Testing / Limits of Detection |
|-----|----------------------------|-------------------------------------------|-------------------------------------------------------------|----------------------------------------|
|     |                            | <i>Shigella</i>                           | IS 5887(7):1999, RA 2009,                                   | Present / Absent /250ml                |
|     |                            | <i>Staphylococcus .aureus</i>             | IS 15186:2002                                               | Present / Absent /250ml                |
|     |                            | Yeast and Mould                           | IS 5403:1999, RA 2005, RA 2005                              | Present / Absent /250ml                |
|     |                            | Pseudomonas                               | IS 13428 Annex C ,2005 RA 2014                              | Present / Absent /50ml                 |
|     |                            | Sulphite reducing anaerobes ( Clostridia) | IS 13428 Annex C ,2005 RA 2014                              | Present / Absent /50ml                 |
|     |                            | <i>Vibrio cholerae</i>                    | IS 5887(5) : 1976 RA 2018                                   | Present / Absent /250ml                |
|     |                            | <i>Vibrio parahaemolyticus</i>            | IS 5887(5) : 1976 RA 2018                                   | Present / Absent /250ml                |

**\*NOTE:** The Laboratory has demonstrated competence for the stated scope for **WATER**. This however **does not fully cover** the specification requirements of **BIS** for the **Packaged Drinking Water** as per **IS:14543** and the **Packaged Natural Mineral Water IS:13428**.

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|-------------------------|---------------------------------------|---------------------------------|----------------------------------------------------------------------|----------------------------------------|
| <b>CHEMICAL TESTING</b> |                                       |                                 |                                                                      |                                        |
| <b>I.</b>               | <b>FOOD AND AGRICULTURAL PRODUCTS</b> |                                 |                                                                      |                                        |
| <b>1.</b>               | <b>Tea &amp; Tea Products</b>         | Loss on drying /Moisture        | AOAC 20 <sup>th</sup> Edn. 925.19, 934.01, IS 13853:1994, RA 2009    | 0.1 to 15 g/100g                       |
|                         |                                       | Total ash                       | IS 13854:1994, RA 2009                                               | 0.1 to 15 g/100g                       |
|                         |                                       | Acid insoluble ash              | IS 13857:1993, RA 2009                                               | 0.01 to 5 g/100g                       |
|                         |                                       | Water soluble ash               | IS 13855:1993, RA 2009                                               | 1 to 100 g/100g                        |
|                         |                                       | Alkalinity of water soluble ash | IS 13856:1993, RA 2009                                               | 0.5 to 50 g/100g                       |
|                         |                                       | Water extract                   | IS 13862:1999, RA 2009                                               | 0.1 to 50 g/100g                       |
|                         |                                       | Crude fiber                     | AOAC 20 <sup>th</sup> Edn. 962.09, IS 10226 (Part-1):1982, RA 2015   | 0.5 to 30 g/100g                       |
|                         |                                       | Dietary Fiber                   | AOAC 20 <sup>th</sup> Edn. 985.29                                    | 0.5 to 60 g/100g                       |
| <b>2.</b>               | <b>Coffee and cocoa products</b>      | Moisture                        | AOAC 20 <sup>th</sup> Edn. 979.12                                    | 0.1 to 15 g/100g                       |
|                         |                                       | Total ash                       | AOAC 20 <sup>th</sup> Edn. 920.93                                    | 0.1 to 15 g/100g                       |
|                         |                                       | Acid insoluble ash              | AOAC 20 <sup>th</sup> Edn. 975.12                                    | 0.01 to 2 g/100g                       |
|                         |                                       | Alkalinity of ash               | AOAC 20 <sup>th</sup> Edn. 920.93 / IS 13856:1993, RA 2009           | 1 to 20 g/100g                         |
|                         |                                       | Soluble solids                  | AOAC 20 <sup>th</sup> Edn. 973.21                                    | 1 to 95 g/100g                         |
| <b>3.</b>               | <b>Milk and Dairy Products</b>        |                                 |                                                                      |                                        |
|                         | <b>(i) Whole/ Skimmed milk</b>        | Moisture content                | IS 16072:2012                                                        | 0.5 to 20 g/100g                       |
|                         |                                       | Titrateable acidity             | AOAC 20 <sup>th</sup> Edn. 947.05                                    | 0.1 to 15 g/100g                       |
|                         |                                       | Fat                             | AOAC 20 <sup>th</sup> Edn. 932.06, AOAC 20 <sup>th</sup> Edn. 933.05 | 0.2 to 40 g/100g                       |
|                         |                                       | Lactose                         | AOAC 20 <sup>th</sup> Edn. 930.28                                    | 0.5 to 50 g/100g                       |
|                         |                                       | Protein                         | AOAC 20 <sup>th</sup> Edn. 930.29                                    | 0.5 to 50 g/100g                       |
|                         |                                       | Ash                             | AOAC 20 <sup>th</sup> Edn. 930.30                                    | 0.1 to 15 g/100g                       |

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|-----|----------------------------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------------------|----------------------------------------|
|     |                                                                                        | Solid not Fat                                                | AOAC 20 <sup>th</sup> Edn. 990.21                           | 5 to 90 g/100g                         |
|     | (ii) Raw Milk/ Milk Powder                                                             | Detection of Starch in Milk                                  | FSSAI Manual 1:2016; Page No-11                             | Qualitative                            |
|     |                                                                                        | Detection of Urea In Milk                                    | FSSAI Manual 1 :2016; Page No- 13                           | Qualitative                            |
|     |                                                                                        | Detection of Ammonium compound                               | FSSAI Manual 1 :2016; Page No- 15                           | Qualitative                            |
|     |                                                                                        | Presence of Sulphate in Milk                                 | FSSAI Manual 1 :2016; Page No- 16                           | Qualitative                            |
|     |                                                                                        | Detection of Added Glucose in milk                           | FSSAI Manual 1 :2016; Page No- 17-18                        | Qualitative                            |
|     |                                                                                        | Detection of NaCl in Milk                                    | FSSAI Manual 1 :2016; Page No- 18-19                        | Qualitative                            |
|     |                                                                                        | Detection of Neutralizer in Milk                             | FSSAI Manual 1 :2016; Page No- 22-23                        | Qualitative                            |
|     |                                                                                        | Test for the presence of skimmed milk powder in natural milk | FSSAI Manual 1 :2016; Page No- 27                           | Qualitative                            |
|     |                                                                                        | Test for the presence of formalin in milk                    | FSSAI Manual 1 :2016; Page No- 28-29                        | Qualitative                            |
|     |                                                                                        | Test for the presence of salicylic acid in milk              | FSSAI Manual 1 :2016; Page No- 32                           | Qualitative                            |
|     |                                                                                        | Test for the detection of vegetable fat in milk              | FSSAI Manual 1 :2016; Page No- 19-21                        | Qualitative                            |
|     |                                                                                        | Test for the detection of cane sugar in milk                 | FSSAI Manual 1 :2016; Page No- 9-10                         | Qualitative                            |
|     |                                                                                        | Test for the detection of detergent in milk                  | FSSAI Manual 1 :2016; Page No- 26-27                        | Qualitative                            |
|     | (iii) Ice cream and frozen desserts, Kulfi, Yogurt, chocolates, Rosgolla, Sweet Petha. | Total solids                                                 | IS 2802:1964, RA 2011                                       | 5 to 65 g/100g                         |

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|-----|-------------------------------------------------------------------|---------------------------|-----------------------------------------------------------------------------------------|----------------------------------------|
|     |                                                                   | Fat                       | IS 2802:1964, RA 2011                                                                   | 0.2 to 40 g/100g                       |
|     |                                                                   | Lactose                   | AOAC 20 <sup>th</sup> Edn. 930.28                                                       | 0.2 to 20 g/100g                       |
|     |                                                                   | Protein                   | AOAC 20 <sup>th</sup> Edn. 930.33                                                       | 0.5 to 15 g/100g                       |
|     |                                                                   | Ash                       | AOAC 20 <sup>th</sup> Edn. 920.108                                                      | 0.1 to 10 g/100g                       |
|     |                                                                   | Carbohydrate              | IS 1656:2007 RA 2016, AOAC 986.25                                                       | 1 to 100 g/100g                        |
|     |                                                                   | Energy Value              | EASI-GEN-SOP-14 ;Issue No- 1;Issue Date:06.11.2015                                      | 50 to 700 kcal/100gm                   |
|     |                                                                   | Water Activity            | EASI-CHE-SOP-17 ;Issue No- 1;Issue Date:18.04.2018                                      | 0.0100 to 0.9999                       |
|     | (iv) Butter Pasteurized ,Cheese, Paneer, Khova, Ghee              | Loss on Drying (moisture) | AOAC 20 <sup>th</sup> Edn. 926.08                                                       | 1 to 80 g/100g                         |
|     |                                                                   | Ash                       | AOAC 20 <sup>th</sup> Edn. 935.42                                                       | 0.1 to 15 g/100g                       |
|     |                                                                   | Fat                       | AOAC 20 <sup>th</sup> Edn. 933.05, IS 3507:1966, RA 2013                                | 0.5 to 90 g/100g                       |
|     |                                                                   | Protein                   | AOAC 20 <sup>th</sup> Edn. 920.87                                                       | 0.5 to 50 g/100g                       |
|     |                                                                   | Total chloride            | AOAC 20 <sup>th</sup> Edn. 935.43                                                       | 1000 to 10000 mg/kg                    |
|     |                                                                   | Acidity                   | AOAC 20 <sup>th</sup> Edn. 920.124/ IS 3507:1966, RA 2013                               | 0.01 to 50 g/100g                      |
|     |                                                                   | Sulphur Dioxide           | AOAC 20 <sup>th</sup> Edn. 990.28                                                       | 10 to 1000 mg/kg                       |
|     |                                                                   | Melting Point             | FSSAI Manual 2 :Page No. 16-18 :2016                                                    | 5.0 to 250°C                           |
|     |                                                                   | Reichert Value            | IS 548 (P-1):1964, RA 2015, IS 3508:1966, RA 2013, FSSAI Manual 2 :Page No. 30-34 :2016 | 1.0 to 35.0                            |
|     |                                                                   | Polenske Value            | IS 548 (P-1):1964, RA 2015, IS 3508:1966, RA 2013, FSSAI Manual 2 :Page No. 35 :2016    | 0.50 to 20                             |
|     | (v) Milk and dairy products infant formula and complimentary food | Total Ash                 | IS 1656:2007, RA 2012/ AOAC 20 <sup>th</sup> Edn. 945.46                                | 0.1 to 15 g/100g                       |
|     |                                                                   | Moisture                  | AOAC 20 <sup>th</sup> Edn. 927.05, IS 16072:2012                                        | 0.1 to 15 g/100g                       |

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|-----|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------------|
|     |                            | Acid insoluble Ash                                                                                                                                                                                                                                                                                | IS 1656:2007, RA 2012                                                                             | 0.01 to 10 g/100g                      |
|     |                            | Protein                                                                                                                                                                                                                                                                                           | IS 1656:2007, RA 2012                                                                             | 0.5 to 40 g/100g                       |
|     |                            | Total fat                                                                                                                                                                                                                                                                                         | IS 1656:2007, RA 2012/<br>AOAC 20 <sup>th</sup> Edn. 945.48,<br>AOAC 20 <sup>th</sup> Edn. 933.05 | 0.2 to 30 g/100g                       |
|     |                            | Total Carbohydrates                                                                                                                                                                                                                                                                               | IS 1656:2007, RA 2012,<br>AOAC 20 <sup>th</sup> Edn. 986.25                                       | 1 to 100 g/100g                        |
|     |                            | Energy Value                                                                                                                                                                                                                                                                                      | EASI-GEN-SOP-14 ;<br>Issue No- 1; Issue<br>Date:06.11.2015                                        | 50 to 700 kcal/100gm                   |
|     |                            | Dietary Fiber                                                                                                                                                                                                                                                                                     | AOAC 20 <sup>th</sup> Edn. 985.29                                                                 | 0.5 to 20 g/100g                       |
|     |                            | <b>Fatty acid profile</b>                                                                                                                                                                                                                                                                         |                                                                                                   |                                        |
|     |                            | Saturated Fatty Acids<br>(Butyric acid ,Caproic acid<br>,Caprylic acid ,Capric acid<br>,Lauric acid ,Tridecanoic<br>acid ,Myristic acid<br>,pentadecanoic acid ,Palmitic<br>acid ,Heptadecanoic acid<br>,Stearic acid ,Aradic acid<br>,Henicosadienoic acid<br>,Behenic acid, Lignoceric<br>acid) | AOAC 20 <sup>th</sup> Edn. 996.01                                                                 | 0.1 to 99.5g/100g                      |
|     |                            | Mono Unsaturated Fatty<br>Acid (Myristoleic acid ,Cis -<br>10-Pentadecnoic acid<br>,Palmitoleic acid ,Cis-10-<br>Heptadecanoic acid ,Trans-<br>9-Eladic acid ,Cis-9-Oleic<br>acid ,Cis-11-Eicosanoic<br>acid ,Erucic acid<br>,Tricosanoic acid,<br>Nervionic acid )                               | AOAC 20 <sup>th</sup> Edn. 996.01                                                                 | 0.10 to 99.5g/100g                     |

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|-----|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------|
|     |                                                                                            | Poly Unsaturated Fatty Acid (Linolelaidic acid ,Linoleic acid ,Gamma Linolenic acid ,Alpha Linolenic acid ,Cis-11-14-Eicosadienoic acid ,Cis-8,11,14-Eicosatrienoic acid ,Cis-11,14,17-Eicosatrienoic acid ,Arachidonic acid ,Cis-13,16-Docosadienoic acid ,EPA,DHA) | AOAC 20 <sup>th</sup> Edn. 996.01                               | 0.10 to 99.5g/100g                     |
|     |                                                                                            | Trans Fatty Acid(Trans-9-Eladic acid ,Linolelaidic acid )                                                                                                                                                                                                            | AOAC 20 <sup>th</sup> Edn. 996.01                               | 0.10 to 99.5g/100g                     |
|     |                                                                                            | Cholesterol                                                                                                                                                                                                                                                          | AOAC 20 <sup>th</sup> Edn. 994.10                               | 10.0 to 20000 mg/kg                    |
|     | <b>D) Herbs, Spices and condiments</b>                                                     |                                                                                                                                                                                                                                                                      |                                                                 |                                        |
|     | <b>(i) Sweet and bell pepper and by products, chat masala and mixed masala and spices.</b> | Total ash                                                                                                                                                                                                                                                            | AOAC 20 <sup>th</sup> Edn. 941.12                               | 0.1 to 20 g/100g                       |
|     |                                                                                            | Water insoluble ash                                                                                                                                                                                                                                                  | IS 1797:1985, RA 2013                                           | 0.01 to 5 g/100g                       |
|     |                                                                                            | Acid insoluble ash                                                                                                                                                                                                                                                   | IS 1797:1985, RA 2013                                           | 0.01 to 5 g/100g                       |
|     |                                                                                            | Moisture content                                                                                                                                                                                                                                                     | AOAC 20 <sup>th</sup> Edn. 941.11 / 986.21                      | 0.2 to 15 g/100g                       |
|     |                                                                                            | Crude fiber                                                                                                                                                                                                                                                          | AOAC 20 <sup>th</sup> Edn. 920.169/ IS 1797:1985, RA 2013       | 1 to 50 g/100g                         |
|     |                                                                                            | Nonvolatile ether extract                                                                                                                                                                                                                                            | AOAC 20 <sup>th</sup> Edn. 920.172, IS 1797:1985, RA 2013       | 0.5 to 25 g/100g                       |
|     |                                                                                            | Volatile oil                                                                                                                                                                                                                                                         | AOAC 20 <sup>th</sup> Edn. 962.17                               | 0.20 to 10 g/100g                      |
|     |                                                                                            | Sulphur Dioxide                                                                                                                                                                                                                                                      | AOAC 20 <sup>th</sup> Edn. 990.28                               | 10.00 to 1000mg/kg                     |
|     |                                                                                            | Salt (as NaCl)                                                                                                                                                                                                                                                       | IS 1797:1985, RA 2013                                           | 0.1 to 20 g/100g                       |
|     |                                                                                            | Color Value                                                                                                                                                                                                                                                          | ASTA 4th Edn. Method 20.1, FSSAI Manual 7 :2016; Page No. 48-49 | 20.00 to 200                           |

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|-----|-----------------------------------------------------------------------------------------------------------|------------------------------------------|---------------------------------------------------------------|----------------------------------------|
|     |                                                                                                           | Cold Water Soluble Extract               | IS 1797:1985, RA 2013, FSSAI Manual 7 :2016; Page No. 15      | 1.0 to 25.0g/100g                      |
|     |                                                                                                           | Detection of Starch                      | FSSAI Manual 7:2016; Page No- 39-40                           | Qualitative                            |
|     | (ii)Turmeric                                                                                              | Total Starch                             | ASTA Method (8.0), 1997, FSSAI Manual 7 :2016; Page No. 35-36 | 1.0 to 70.0 g/100g                     |
|     |                                                                                                           | Curcumin Content                         | IS 10925:1984 RA 2012, FSSAI Manual 7 :2016; Page No. 34-35   | 0.10 to 8g/100g                        |
|     |                                                                                                           | Lead Chromate                            | FSSAI Manual 7 :2016; Page No. 36                             | Qualitative                            |
|     | (iii)Coriander seeds and Powder, Sonth powder, pepper, curry powder, mixed masala, cumin seeds and powder | Total ash                                | AOAC 20 <sup>th</sup> Edn. 941.12                             | 0.10 to 20 g/100g                      |
|     |                                                                                                           | Acid Insoluble ash                       | IS 1797:1985, RA 2013                                         | 0.01 to 5 g/100g                       |
|     |                                                                                                           | Moisture Content                         | IS 1797:1985, RA 2013                                         | 0.2 to 15 g/100g                       |
|     |                                                                                                           | Volatile Oil                             | AOAC 20 <sup>th</sup> Edn. 962.17                             | 0.2 to 10 g/100g                       |
|     |                                                                                                           | Dietary Fiber                            | AOAC 20 <sup>th</sup> Edn.. 985.29                            | 0.5 to 60g/100g                        |
|     |                                                                                                           | Filth                                    | AOAC 20 <sup>th</sup> Edn. 975.48                             | 0.1 to 3g/100g                         |
|     |                                                                                                           | Sieve Analysis                           | ASTA method 10.0                                              | 0.1 to 99g/100g                        |
|     |                                                                                                           | Alcohol Soluble Extract                  | IS 1797:1985, RA 2013                                         | 1 to 10 g/100g                         |
|     |                                                                                                           | Bulk Density(Tapped & untapped)          | FSSAI Manual 7:2016; Page No- 26                              | 450 to 800g/litre                      |
|     |                                                                                                           | Extraneous Matter & other refraction     | FSSAI Manual 7:2016; Page No- 2                               | 0.10 to 50g/100g                       |
|     |                                                                                                           | Determination of Light Berries           | FSSAI Manual 7:2016; Page No- 27                              | 0.10 to 60g/100g                       |
|     |                                                                                                           | Piperine content                         | FSSAI Manual 7:2016; Page No- 28-29                           | 1 to 10.00g/100g                       |
|     |                                                                                                           | Detection of papaya seed in black pepper | FSSAI Manual 7:2016; Page No-41                               | Qualitative                            |
|     |                                                                                                           |                                          |                                                               |                                        |

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|-----|------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------------------------------------------------------------------------------|----------------------------------------|
|     | <b>(iv)Saffron</b>                                                                                                                             | Identification test     | FSSAI Manual 7:2016; Page No- 30; IS 5453(P-2):2012                                     | Qualitative                            |
|     |                                                                                                                                                | Extraneous matter       | FSSAI Manual 7:2016; Page No- 31; IS 5453(P-2):2012                                     | 0.01 to 2.00 g/100g                    |
|     |                                                                                                                                                | Floral waste            | FSSAI Manual 7:2016; Page No- 31; IS 5453(P-2):2012                                     | 0.020 to 10.00 g/100g                  |
|     |                                                                                                                                                | Picrocrocine            | FSSAI Manual 7:2016; Page No- 32-33; IS 5453(P-2):2012                                  | 30.00 to 90.00                         |
|     |                                                                                                                                                | safranal                | FSSAI Manual 7:2016; Page No- 32-33; IS 5453(P-2):2012                                  | 20 to 50.00                            |
|     |                                                                                                                                                | Crocine                 | FSSAI Manual 7:2016; Page No- 32-33; IS 5453(P-2):2012                                  | 1 to 220.00                            |
|     | <b>E) Cereals , pulses and by products, (Green Gram, wheat flour, Daliya, Besan flour, Pea flour, rice flour, Cereal based infant formula)</b> | Moisture                | IS7874(Part-1):1975, RA 2014, IS 6072:2012, IS 1155:1968, RA 2015                       | 0.10 to 15.00 g/100g                   |
|     |                                                                                                                                                | Ash                     | AOAC 20 <sup>th</sup> Edn. 923.03, IS 1656:2007, RA 2012                                | 0.10 to 15.00 g/100g                   |
|     |                                                                                                                                                | Acid insoluble ash      | AOAC 20 <sup>th</sup> Edn. 923.03, IS 7874 (Part-1):1975 RA 2014, IS 1656:2007, RA 2012 | 0.01 to 1.00 g/100g                    |
|     |                                                                                                                                                | Crude protein           | AOAC 20 <sup>th</sup> Edn. 920.87 IS 5983 (Part-2):2007, IS 1656:2007, RA 2012          | 0.50 to 40.00 g/100g                   |
|     |                                                                                                                                                | Carbohydrates           | IS 1656:2007, RA 2012, AOAC 20 <sup>th</sup> Edn. 986.25                                | 1.00 to 100.00g/100g                   |
|     |                                                                                                                                                | Energy Value            | EASI-GEN-SOP-14 ; Issue No- 1; Issue Date:06.11.2015                                    | 50 to 700 kcal/100gm                   |

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|-----|----------------------------------------------|--------------------------|------------------------------------------------------------------|----------------------------------------|
|     |                                              | Crude fiber              | IS 1155:1968, RA 2015                                            | 0.1 to 12 g/100g                       |
|     |                                              | Sulphur Dioxide          | AOAC 20 <sup>th</sup> Edn. 990.28                                | 10.00 to 1000.00 mg/kg                 |
|     |                                              | Dietary Fiber            | AOAC 20 <sup>th</sup> Edn. 985.29                                | 1.00 to 30.00 g/100g                   |
|     |                                              | Total Starch             | IS 4706:1978 (Part 1) RA 2010 / ASTA Method (8.0)                | 1 to 70 g/100g                         |
|     |                                              | Gluten                   | IS 1155:1968, RA 2015                                            | 1 to 15 g/100g                         |
|     |                                              | Alcoholic acidity        | IS 1155:1968, RA 2015                                            | 0.01 to 5 g/100g                       |
|     |                                              | Crude fat                | IS 7874(Part-1):1975, RA 2014, AOAC 20 <sup>th</sup> Edn. 933.05 | 0.2 to 15 g/100g                       |
|     | (i) Maida, Ragi flour, millets, Oats & other | Moisture                 | IS 1009:1979, RA 2015                                            | 0.1 to 15 g/100g                       |
|     |                                              | Total ash                | IS 1009:1979, RA 2015                                            | 0.1 to 5 g/100g                        |
|     |                                              | Gluten                   | IS 1009:1979, RA 2015                                            | 1 to 15 g/100g                         |
|     |                                              | Alcoholic acidity        | IS 1009:1979, RA 2015                                            | 0.01 to 5 g/100g                       |
|     |                                              | Fat                      | IS 12711:1989, RA 2010                                           | 0.2 to 20 g/100g                       |
|     |                                              | Protein                  | AOAC 20 <sup>th</sup> Edn. 920.87                                | 0.5 to 20 g/100g                       |
|     |                                              | Dietary Fiber            | AOAC 20 <sup>th</sup> Edn. 985.29                                | 1 to 20 g/100g                         |
|     | (ii) Cereals and Pulses including Rice       | Length                   | ISO 7301:2011                                                    | 0.1 to 10 mm                           |
|     |                                              | Breadth                  | ISO 7301:2011                                                    | 0.1 to 3 mm                            |
|     |                                              | Width                    | ISO 7301:2011                                                    | 0.1 to 3 mm                            |
|     |                                              | Length/Breadth ratio     | ISO 7301:2011                                                    | 2 to 5                                 |
|     |                                              | Elongation               | ISO 7301:2011                                                    | 0.1 to 20 mm                           |
|     |                                              | Organic Foreign matter   | ISO 7301:2011                                                    | 0.05 to 5 g/100g                       |
|     |                                              | Inorganic Foreign matter | ISO 7301:2011                                                    | 0.05 to 5 g/100g                       |
|     |                                              | Paddy Grains             | ISO 7301:2011                                                    | 1 to 10 g/100g                         |
|     |                                              | Green Grains             | ISO 7301:2011                                                    | 0.01 to 5 g/100g                       |
|     |                                              | Elongation Ratio         | ISO 7301:2011                                                    | 1 to 5                                 |
|     |                                              | Immature grains          | ISO 7301:2011                                                    | 0.01 to 5 g/100g                       |
|     |                                              | Chalky Grains            | ISO 7301:2011                                                    | 0.01 to 10 g/100g                      |
|     |                                              | Red streaked Grains      | ISO 7301:2011                                                    | 0.01 to 5 g/100g                       |
|     |                                              | Broken fragments         | ISO 7301:2011                                                    | 0.01 to 10 g/100g                      |
|     |                                              | Extraneous matter        | ISO 7301:2011                                                    | 0.01 to 10 g/100g                      |
|     |                                              | Moisture                 | ISO 712:2009                                                     | 0.1 to 20 g/100g                       |

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|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
|     |                                                                                                                                                                                    | Rice Whiteness               | EASI-CHE-SOP-09, Issue No-1, Issue Date:31.03.2017                                    | 5.0 to 69.9                            |
|     |                                                                                                                                                                                    | Alkali Spread Value          | DRR Manual                                                                            | Qualitative                            |
|     |                                                                                                                                                                                    | Gel Length                   | DRR Manual                                                                            | 20 to 100mm                            |
|     |                                                                                                                                                                                    | Milling Yield                | DRR Manual                                                                            | 50 to 95 g/100g                        |
|     |                                                                                                                                                                                    | Amylose                      | DRR Manual; ISO 6647-2 :2015                                                          | 20.0 to 35g/100g                       |
|     |                                                                                                                                                                                    | Aflatoxin B1, B2,G1 & G2     | EASI-CHE-SOP-18; Issue No-1;Issue Date 1.05.2018<br>EN 14123/AOAC 2005.08             | 0.50 µg/kg to 500 µg/kg                |
|     | F) Oils, fats & oil seeds (coconut oil, olive oil, Mustard oil and sesame oil, Cumin seed oil, Moringa oil, sunflower oil, groundnut oil, flaxseed oil, linseed oil and other oil) | Moisture                     | IS 548 (P-1):1964, RA 2015, IS 3508:1966, RA 2013                                     | 0.01 to 10 g/100g                      |
|     |                                                                                                                                                                                    | Acid value                   | IS 548 (P-1):1964, RA 2015                                                            | 0.01 to 10                             |
|     |                                                                                                                                                                                    | Peroxide value               | IS 548 (P-1):1964, RA 2015                                                            | 0.1 to 100 meq/kg                      |
|     |                                                                                                                                                                                    | Unsaponifiable matter        | IS 548 (P-1):1964, RA 2015                                                            | 0.01 to 5 g/100g                       |
|     |                                                                                                                                                                                    | Saponification value         | IS 548 (P-1):1964, RA 2015                                                            | 100 to 300                             |
|     |                                                                                                                                                                                    | Free Fatty Acid              | IS 548 (P-1):1964, RA 2015                                                            | 0.1 to 5 g/100g                        |
|     |                                                                                                                                                                                    | Kries Test                   | FSSAI Manual 2 :Page No. 88 :2016                                                     | Qualitative                            |
|     |                                                                                                                                                                                    | Iodine Value                 | IS 548 (P-1):1964, RA 2015, FSSAI Manual 2 :Page No. 26-28 :2016                      | 10.0 to 180.0                          |
|     |                                                                                                                                                                                    | Specific Gravity(or) Density | IS 548 (P-1):1964, RA 2015                                                            | 0.80 to 1.80                           |
|     |                                                                                                                                                                                    | Flash Point                  | FSSAI Manual 2 Page No. 13-14 :2016                                                   | 35 to 370°C                            |
|     |                                                                                                                                                                                    | Bellier Test                 | FSSAI Manual 2: Page No.35-37:2016                                                    | 10 to 60°C                             |
|     |                                                                                                                                                                                    | Baudouin Test                | FSSAI Manual 2: Page No. 38-39:2016                                                   | Qualitative                            |
|     |                                                                                                                                                                                    | Refractive Index             | IS 548 (P-1):1964, RA 2015, IS 3508:1966, RA 2013, FSSAI Manual 2 :Page No. 8-9 :2016 | 1.3330 to 1.9010                       |

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|-----|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------|
|     |                            | Butyrometer Reading                                                                                                                                                                                                                                                  | IS 548 (P-1):1964, RA 2015, IS 3508:1966, RA 2013, FSSAI Manual 2 : Page No. 8-12 :2016 | 1 to 100.00                            |
|     |                            | Test for the presence of cotton seed oil                                                                                                                                                                                                                             | FSSAI Manual 2 : Page No. 39-40:2016                                                    | Qualitative                            |
|     |                            | Test for the presence of mineral oil                                                                                                                                                                                                                                 | FSSAI Manual 2 : Page No. 65-66:2016                                                    | Qualitative                            |
|     |                            | Fatty Acid Profile                                                                                                                                                                                                                                                   |                                                                                         |                                        |
|     |                            | Saturated Fatty Acids( Butyric acid ,Caproic acid ,Caprylic acid ,Capric acid ,Lauric acid ,Tridecanoic acid ,Myristic acid ,pentadecanoic acid ,Palmitic acid ,Heptadecanoic acid ,Stearic acid ,Aradic acid ,Henicosadienoic acid ,Behenic acid ,Lignoceric acid ) | AOAC 20 <sup>th</sup> Edn. 996.01                                                       | 0.10 to 99.50 g/100g                   |
|     |                            | Mono Unsaturated Fatty Acid (Myristoleic acid ,Cis -10-Pentadecnoic acid ,Palmitoleic acid ,Cis-10-Heptadecanoic acid ,Trans-9-Eladic acid ,Cis-9-Oleic acid ,Cis-11-Eicosanoic acid ,Erucic acid ,Tricosanoic acid , Nervionic acid )                               | AOAC 20 <sup>th</sup> Edn. 996.01                                                       | 0.10 to 99.50 g/100g                   |
|     |                            | Poly Unsaturated Fatty Acid (Linolelaidic acid ,Linoleic acid ,Gamma Linolenic acid ,Alpha Linolenic acid ,Cis-11-14-                                                                                                                                                | AOAC 20 <sup>th</sup> Edn. 996.01                                                       | 0.10 to 99.50 g/100g                   |

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|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|----------------------------------------|
|     |                                                                                                                                                                               | Eicosadienoic acid ,Cis-8,11,14-Eicosatrienoic acid ,Cis-11,14,17-Eicosatrienoic acid ,Arachidonic acid ,Cis-13,16-Docosadienoic acid ,EPA,DHA) |                                                             |                                        |
|     |                                                                                                                                                                               | Trans Fatty Acid(Trans-9-Eladic acid ,Linolelaidic acid )                                                                                       | AOAC 20 <sup>th</sup> Edn. 996.01                           | 0.10 to 99.5 g/100g                    |
|     |                                                                                                                                                                               | Cholesterol                                                                                                                                     | AOAC 20 <sup>th</sup> Edn. 994.10                           | 10 to 20000 mg/kg                      |
|     | <b>G) Fruit and vegetable products (Fruit and vegetable based juices, Concentrates, Puree, pulp, pickles, fruit jam,ready to eat, sauces, dehydrated fruit and vegetable)</b> | Total Solids                                                                                                                                    | AOAC 20 <sup>th</sup> Edn. 920.151                          | 1 to 90 g/100g                         |
|     |                                                                                                                                                                               | Titrateable Acidity as tartaric acid                                                                                                            | AOAC 20 <sup>th</sup> Edn. 942.15                           | 0.1 to 10 g/100g                       |
|     |                                                                                                                                                                               | Titrateable Acidity as citric acid monohydrate                                                                                                  | AOAC 20 <sup>th</sup> Edn. 942.15                           | 0.1 to 10 g/100g                       |
|     |                                                                                                                                                                               | Titrateable Acidity as oxalic acid                                                                                                              | AOAC 20 <sup>th</sup> Edn. 942.15                           | 0.1 to 10 g/100g                       |
|     |                                                                                                                                                                               | Titrateable Acidity as malic acid                                                                                                               | AOAC 20 <sup>th</sup> Edn. 942.15                           | 0.1 to 10 g/100g                       |
|     |                                                                                                                                                                               | Titrateable Acidity as lactic acid                                                                                                              | AOAC 20 <sup>th</sup> Edn. 942.15                           | 0.1 to 10 g/100g                       |
|     |                                                                                                                                                                               | Titrateable Acidity as acetic acid                                                                                                              | AOAC 20 <sup>th</sup> Edn. 942.15                           | 0.1 to 10 g/100g                       |
|     |                                                                                                                                                                               | Titrateable Acidity as sulfuric acid                                                                                                            | AOAC 20 <sup>th</sup> Edn. 942.15                           | 0.1 to 10 g/100g                       |
|     |                                                                                                                                                                               | Volatile acidity                                                                                                                                | AOAC 20 <sup>th</sup> Edn. 925.34                           | 0.1 to 10 g/100g                       |
|     |                                                                                                                                                                               | Peroxidase Test                                                                                                                                 | FSSAI Manual 3<br>Page no 51:2016                           | Qualitative<br>(present/Absent)        |
|     |                                                                                                                                                                               | Brix                                                                                                                                            | FSSAI Manual 3:<br>Page No 4 -7:2016                        | 5 to 50 ° Brix                         |
|     |                                                                                                                                                                               | Viscosity                                                                                                                                       | EASI-CHE-SOP-08;<br>Issue No-1;Issue Date-19.05.2016        | 15 to 2000000 cp                       |

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| Sl. | Product / Material of Test             | Specific Test Performed              | Test Method Specification against which tests are performed       | Range of Testing / Limits of Detection |
|-----|----------------------------------------|--------------------------------------|-------------------------------------------------------------------|----------------------------------------|
|     |                                        | Appearance                           | Visually                                                          | NA                                     |
|     |                                        | Odour                                | Organoleptic                                                      | NA                                     |
|     |                                        | Taste                                | Organoleptic                                                      | NA                                     |
|     |                                        | Color                                | Visually                                                          | NA                                     |
|     | <b>H) Sugar and sugar products</b>     |                                      |                                                                   |                                        |
|     | <b>(i) Jaggery, Sugar</b>              | loss on drying                       | IS 15279:2003, RA 2013                                            | 0.02 to 5 g/100g                       |
|     |                                        | Sulphated ash                        | IS 15279:2003, RA 2013                                            | 0.1 to 20 g/100g                       |
|     |                                        | Sulphur Dioxide                      | AOAC 20 <sup>th</sup> Edn. 990.28                                 | 10 to 1000 mg/kg                       |
|     |                                        | Filth                                | AOAC 20 <sup>th</sup> Edn. 975.48                                 | 0.1 to 3 g/100g                        |
|     | <b>(ii) Honey, other sugar syrups.</b> |                                      | IS 4941:1994 RA 2008                                              | 0.1 to 5 g/100g                        |
|     |                                        | Total ash                            |                                                                   |                                        |
|     |                                        | Specific gravity                     | IS 4941:1994 RA 2008                                              | 0.8 to 2.0                             |
|     |                                        | Fructose-Glucose ratio               | IS 4941:1994 RA 2008                                              | 0.1 to 3                               |
|     |                                        | Acidity                              | IS 4941:1994 RA 2008                                              | 0.02 to 1.0 g/100g                     |
|     |                                        | Moisture                             | IS 4941:1994 RA 2008                                              | 0.1 to 20 g/100g                       |
|     |                                        | Total reducing sugar as invert sugar | IS 4941:1994 RA 2008                                              | 5 to 85 g/100g                         |
|     |                                        | Glucose                              | AOAC 20 <sup>th</sup> Edn. 935.62<br>IS 4941:1994 RA 2008         | 0.1 to 50 g/100g                       |
|     |                                        | Fructose                             | AOAC 20 <sup>th</sup> Edn. 935.63<br>IS 4941:1994 RA 2008         | 0.1 to 60 g/100g                       |
|     |                                        | Brix                                 | FSSAI Manual 1 :<br>Chapter 2: Page No 34 :2016                   | 5.0 to 100 ° Brix                      |
|     |                                        | HMF                                  | IS 4941:1994 RA 2008 ,<br>AOAC 20 <sup>th</sup> Edn. 980.23       | 0.10 to 180 mg/kg                      |
|     |                                        | Diastatic Activity                   | AOAC 20 <sup>th</sup> Edn.<br>AOAC 958.09                         | 1 to 50                                |
|     |                                        | Fiehe's test                         | IS 4941:1994 RA 2008                                              | Qualitative                            |
|     |                                        | Sucrose                              | IS 4941:1994 RA 2008,<br>FSSAI Manual 3 :<br>Page No. 15-18 :2016 | 0.50 to 10 g/100g                      |
|     |                                        | Optical Density                      | IS 4941:1994 RA 2008                                              | 0.10 to 0.60 g/100g                    |

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|-----|---------------------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------|----------------------------------------|
|     | <b>I) Food additives, Edible common salt and Iodized salt</b> | Total chloride (as NaCl)                            | IS 254:1973: RA 2010/<br>IS 7224:2006, RA 2010              | 50 to 99.9 g/100g                      |
|     |                                                               | Water insoluble matter                              | IS 254:1973: RA 2010/<br>IS 7224:2006, RA 2010              | 0.01 to 5 g/100g                       |
|     |                                                               | Total Alkalinity as Na <sub>2</sub> CO <sub>3</sub> | IS 254:1973: RA 2010/<br>IS 7224:2006, RA 2010              | 0.01 to 1 g/100g                       |
|     |                                                               | Moisture content                                    | IS 254:1973: RA 2010/<br>IS 7224:2006, RA 2010              | 0.1 to 10 g/100g                       |
|     |                                                               | Filth test                                          | AOAC 20 <sup>th</sup> Edn. 975.48                           | 0.1 to 3 g/100g                        |
|     | <b>J) Bakery and Confectionery Products</b>                   |                                                     |                                                             |                                        |
|     | <b>(i) Biscuit &amp; snacks</b>                               | Total solid                                         | IS 12711:1989, RA 2010                                      | 10 to 100 g/100g                       |
|     |                                                               | Alcoholic acidity                                   | IS 1155:1989, RA 2010                                       | 0.1 to 5 g/100g                        |
|     |                                                               | Moisture                                            | IS 12711:1989, RA 2010                                      | 0.1 to 20 g/100g                       |
|     |                                                               | Protein                                             | IS 7219:1973, RA 2010                                       | 0.5 to 40 g/100g                       |
|     |                                                               | Total ash                                           | IS 12711:1989, RA 2010                                      | 0.1 to 20 g/100g                       |
|     |                                                               | Acid insoluble ash                                  | IS 12711:1989, RA 2010                                      | 0.01 to 2 g/100g                       |
|     |                                                               | Acidity of extracted fat                            | IS 12711:1989, RA 2010                                      | 0.01 to 2 g/100g                       |
|     |                                                               | Sucrose                                             | IS 6287:1985, RA 2010                                       | 0.1 to 85 g/100g                       |
|     |                                                               | Fat                                                 | IS 12711:1989, RA 2010                                      | 0.2 to 40 g/100g                       |
|     |                                                               | Carbohydrate                                        | IS 1656:2007 RA 2012,<br>AOAC 20 <sup>th</sup> Edn. 986.25  | 1 to 100 g/100g                        |
|     |                                                               | Energy Value                                        | EASI-GEN-SOP-14 ;<br>Issue No- 1; Issue Date:<br>06.11.2015 | 50 to 700 kcal/100gm                   |
|     |                                                               | Crude Fiber                                         | IS 12711:1989, RA 2010                                      | 0.5 to 30 g/100g                       |
|     |                                                               | Dietary Fiber                                       | AOAC 20 <sup>th</sup> Edn. 985.29                           | 0.5 to 20 g/100g                       |
|     |                                                               | Water Activity                                      | EASI-CHE-SOP-17 ;<br>Issue No- 1; Issue Date:<br>18.04.2018 | 0.0100 to 0.9999                       |
|     | <b>(ii) Bubble gum &amp; Chewing gum</b>                      | Moisture                                            | IS 6747:1981, RA 2010                                       | 0.1 to 20 g/100g                       |
|     |                                                               | Sulphated ash                                       | IS 6747:1981, RA 2010                                       | 0.01 to 10 g/100g                      |
|     |                                                               | Acid insoluble Ash                                  | IS 6747:1981, RA 2010                                       | 0.01 to 5 g/100g                       |

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|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-------------------------------------------------------------|----------------------------------------|
|     |                                                                                                                                                                                                                                                                                                                                                                                                                                     | Sucrose                               | IS 6747:1981, RA 2010                                       | 1 to 85 g/100g                         |
|     |                                                                                                                                                                                                                                                                                                                                                                                                                                     | Gum base content                      | IS 6747:1981, RA 2010                                       | 0.5 to 40 g/100g                       |
|     | (iii)Bread                                                                                                                                                                                                                                                                                                                                                                                                                          | Moisture                              | IS 1011:2002, RA 2009                                       | 0.5 to 60 g/100g                       |
|     |                                                                                                                                                                                                                                                                                                                                                                                                                                     | Acid insoluble Ash                    | IS 1011:2002, RA 2009                                       | 0.01 to 5 g/100g                       |
|     |                                                                                                                                                                                                                                                                                                                                                                                                                                     | Acidity of extracted fat              | IS 1011:2002, RA 2009                                       | 0.01 to 2 g/100g                       |
|     |                                                                                                                                                                                                                                                                                                                                                                                                                                     | Fat                                   | IS 12711:1989, RA 2010                                      | 0.2 to 40 g/100g                       |
|     |                                                                                                                                                                                                                                                                                                                                                                                                                                     | Alcoholic Acidity                     | IS 1155:1989, RA 2010                                       | 0.1 to 5 g/100g                        |
|     |                                                                                                                                                                                                                                                                                                                                                                                                                                     | Protein                               | AOAC 20 <sup>th</sup> Edn. 920.87                           | 0.5 to 40 g/100g                       |
|     |                                                                                                                                                                                                                                                                                                                                                                                                                                     | Ash                                   | IS 12711:1989, RA 2010                                      | 0.1 to 15 g/100g                       |
|     | <b>K) Migration</b>                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |                                                             |                                        |
|     | <b>Migration (Hot filled &amp; paturized below 66 °C) (I.Aqueous, non acidic foods without fat.<br/>II.Aqueous, acidic foods without fat<br/>III. Alcoholic beverages<br/>IV.Oil, fats and processed dry foods with surface fat and volatile oil<br/>V. Nonacidic foods or high fat and having high moisture content<br/>VI. Acidic foods or high fat and having high moisture content<br/>VII. Dry processed foods without fat</b> | With Distilled water at 70 °C for 2hr | IS 9845 : 1998, RA 2010                                     | 1 to 100 mg/kg or mg/L                 |
|     |                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                       |                                                             | 0.2 to 100 mg/dm <sup>2</sup>          |
|     |                                                                                                                                                                                                                                                                                                                                                                                                                                     | With 3% Acetic acid at 70 °C for 2hr  | IS 9845 : 1998, RA 2010                                     | 1 to 100 mg/kg or mg/L                 |
|     |                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                       |                                                             | 0.2 to 100 mg/dm <sup>2</sup>          |
|     |                                                                                                                                                                                                                                                                                                                                                                                                                                     | With n-heptane at 38 °C for 30 min    | IS 9845 : 1998, RA 2010                                     | 1 to 100 mg/kg or mg/L                 |
|     |                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                       |                                                             | 0.1 to 100 mg/dm <sup>2</sup>          |

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|-----|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|----------------------------------------|
|     | <b>L) Canned and Processed Food including Mayonnaise, tomato, chilli, soya sauces and other products</b> | Moisture                                                                                                                                                                                                                                                             | IS 2802:1964 RA 2011                                        | 0.50 to 50 g/100g                      |
|     |                                                                                                          | Ash                                                                                                                                                                                                                                                                  | AOAC 20 <sup>th</sup> Edn. 945.46                           | 0.10 to 15 g/100g                      |
|     |                                                                                                          | Fat                                                                                                                                                                                                                                                                  | AOAC 20 <sup>th</sup> Edn 933.05                            | 0.20 to 90 g/100g                      |
|     |                                                                                                          | Protein                                                                                                                                                                                                                                                              | AOAC 19 <sup>th</sup> Edn. 920.87                           | 0.50 to 40 g/100g                      |
|     |                                                                                                          | Sugar                                                                                                                                                                                                                                                                | AOAC 20 <sup>th</sup> Edn. 925.36                           | 0.50 to 20 g/100g                      |
|     |                                                                                                          | Carbohydrate                                                                                                                                                                                                                                                         | IS 1656:2007 RA 2012, AOAC 20 <sup>th</sup> Edn. 986.25     | 1.0 to 100 g/100g                      |
|     |                                                                                                          | Energy                                                                                                                                                                                                                                                               | EASI-GEN-SOP-14 ;Issue No- 1;Issue Date:06.11.2015          | 50.00 to 800.00 kcal/100gm             |
|     |                                                                                                          | Appearance                                                                                                                                                                                                                                                           | Visually                                                    | NA                                     |
|     |                                                                                                          | Odour                                                                                                                                                                                                                                                                | Organoleptic                                                | NA                                     |
|     |                                                                                                          | Taste                                                                                                                                                                                                                                                                | Organoleptic                                                | NA                                     |
|     |                                                                                                          | Color                                                                                                                                                                                                                                                                | Visually                                                    | NA                                     |
|     |                                                                                                          | Fatty acid                                                                                                                                                                                                                                                           |                                                             |                                        |
|     |                                                                                                          | Saturated Fatty Acids( Butyric acid ,Caproic acid ,Caprylic acid ,Capric acid ,Lauric acid ,Tridecanoic acid ,Myristic acid ,pentadecanoic acid ,Palmitic acid ,Heptadecanoic acid ,Stearic acid ,Aradic acid ,Henicosadienoic acid ,Behenic acid, Lignoceric acid ) | AOAC 20 <sup>th</sup> Edn. 996.01                           | 0.10 to 99.5 g/100g                    |
|     |                                                                                                          | Mono Unsaturated Fatty Acid (Myristoleic acid ,Cis - 10-Pentadecnoic acid ,Palmitoleic acid ,Cis-10-Heptadecanoic acid ,Trans-9-Eladic acid ,Cis-9-Oleic acid ,Cis-11-Eicosanoic acid ,Erucic acid ,Tricosanoic acid ,Nervionic acid )                               | AOAC 20 <sup>th</sup> Edn. 996.01                           | 0.10 to 99.5 g/100g                    |

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| Sl. | Product / Material of Test        | Specific Test Performed                                                                                                                                                                                                                                              | Test Method Specification against which tests are performed                     | Range of Testing / Limits of Detection |
|-----|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------|
|     |                                   | Poly Unsaturated Fatty Acid (Linolelaidic acid ,Linoleic acid ,Gamma Linolenic acid ,Alpha Linolenic acid ,Cis-11-14-Eicosadienoic acid ,Cis-8,11,14-Eicosatrienoic acid ,Cis-11,14,17-Eicosatrienoic acid ,Arachidonic acid ,Cis-13,16-Docosadienoic acid ,EPA,DHA) | AOAC 20 <sup>th</sup> Edn. 996.01                                               | 0.10 to 99.5 g/100g                    |
|     |                                   | Trans Fatty Acid (Trans-9-Eladic acid ,Linolelaidic acid )                                                                                                                                                                                                           | AOAC 20 <sup>th</sup> Edn. 996.01                                               | 0.10 to 99.5 g/100g                    |
|     |                                   | Cholesterol                                                                                                                                                                                                                                                          | AOAC 20 <sup>th</sup> Edn. 994.10                                               | 10.00 to 20000 mg/kg                   |
|     | <b>M) Nuts &amp; nut Products</b> | Moisture                                                                                                                                                                                                                                                             | IS 3579:1966 RA 2015                                                            | 0.10 to 20 g/100g                      |
|     |                                   | Ash                                                                                                                                                                                                                                                                  | AOAC 20 <sup>th</sup> Edn. 950.49                                               | 0.10 to 5 g/100g                       |
|     |                                   | Oil Content                                                                                                                                                                                                                                                          | IS 3579:1966 RA 2015                                                            | 0.20 to 70 g/100g                      |
|     |                                   | Protein                                                                                                                                                                                                                                                              | AOAC 20 <sup>th</sup> Edn. 950.48                                               | 0.50 to 50 g/100g                      |
|     |                                   | Sugar                                                                                                                                                                                                                                                                | IS 6287:1985 RA 2010                                                            | 0.50 to 20g/100g                       |
|     |                                   | Dietary Fiber                                                                                                                                                                                                                                                        | AOAC 20 <sup>th</sup> Edn. 985.29                                               | 0.50 to 40 g/100g                      |
|     |                                   | Crude Fiber                                                                                                                                                                                                                                                          | AOAC 20 <sup>th</sup> Edn. 935.53<br>IS 10226(P-):1982,RA 2015                  | 0.50 to 5 g/100g                       |
|     |                                   | Acid Value (Extracted Fat)                                                                                                                                                                                                                                           | IS 3579:1966 RA 2015                                                            | 0.01 to 2.00 g/100g                    |
|     |                                   | Carbohydrate                                                                                                                                                                                                                                                         | IS 1656:2007 RA 2012,<br>AOAC 20 <sup>th</sup> Edn. 986.25                      | 1.00 to 100 g/100g                     |
|     |                                   | Energy                                                                                                                                                                                                                                                               | EASI-GEN-SOP-14 ;<br>Issue No- 1;Issue Date:<br>06.11.2015                      | 50.0 to 700<br>kcal/100gm              |
|     |                                   | Aflatoxin B1, B2,G1 & G2                                                                                                                                                                                                                                             | EASI-CHE-SOP-18;<br>Issue No-1;Issue Date<br>1.05.2018<br>EN 14123/AOAC 2005.08 | 0.50 µg/kg to 500<br>µg/kg             |

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| Sl. | Product / Material of Test                                                                                                                                                                                                                                                                                                                                                                                                                                      | Specific Test Performed | Test Method Specification against which tests are performed                     | Range of Testing / Limits of Detection |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------------------------------------------------------------------------------|----------------------------------------|
|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Ochratoxin A            | EASI-CHE-SOP-18; Issue No-1; Issue Date 2.05.2018<br>EN 14132                   | 0.50 µg/kg to 500 µg/kg                |
|     | <b>N) Food articles- Cereals, pulses, Bakery and confectionary products, coffee and by products ,Tea and tea products, spices and condiments, nuts and nut products , groundnuts, Milk and milk based products, oils and related products, sugar and its products, Flavor, Raw materials used in industries, Food additives and Flavor, poultry products, Processed Food including Mayonnaise, sauce, Oil Seeds &amp; byproducts, Meat &amp; Meat products.</b> | Moisture                | IS 16072:2012, FSSAI Manual; 2016                                               | 0.50-50g/100g                          |
|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Ash                     | AOAC 20th Edn. 945.46, FSSAI Manual; 2016                                       | 0.10-15.g-100g                         |
|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Fat                     | AOAC 20th Edn. 922.06 , FSSAI Manual; 2016                                      | 0.20-50g/100g                          |
|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Protein                 | AOAC 20th Edn. 991.20                                                           | 0.50-50g/100g                          |
|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Lactose                 | AOAC 20th Edn. 930.28                                                           | 0.50-60g/100g                          |
|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Salt                    | IS 1797:1985, RA 2013 , FSSAI Manual;2016                                       | 0.10-20g/100g                          |
|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Dietary Fiber           | AOAC 20 <sup>th</sup> Edn. 985.29                                               | 0.50-60g/100g                          |
|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Crude Fiber             | AOAC 20 <sup>th</sup> Edn. 920.169 / IS 1797:1985, RA 2013 , FSSAI Manual ;2016 | 1.0-50g/100g                           |
|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | pH                      | AOAC 20 <sup>th</sup> Edn. 943.02: 2016 , FSSAI Manual ;2016                    | 1.0-13                                 |
|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Carbohydrate            | IS 1656:2007 RA 2012, AOAC 20 <sup>th</sup> Edn. 986.25                         | 1.0-100g/100g                          |
|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Energy                  | EASI-GEN-SOP-14 ; Issue No- 1; Issue Date: 06.11.2015                           | 50.0-700Kcal/100g                      |
|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Sodium                  | EASI-CHE-SOP-14; Issue No-1; Issue Date: 15.02.2018; IS 9497:1980 RA 2010       | 100-5000mg/100g                        |
|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Potassium               | EASI-CHE-SOP-14; Issue No-1; Issue Date: 15.02.2018; IS 9497:1980 RA 2010       | 10-5000mg/100g                         |

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|-----|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------------------------|
|     |                            | Calcium                                                                                                                                                                                                                                                              | IS 13433(Part-1):1992 RA 2008 , FSSAI Manual ;2016                                          | 100-20000mg/100g                       |
|     |                            | Vitamin A                                                                                                                                                                                                                                                            | AOAC 20 <sup>th</sup> Edition. 2001.13                                                      | 30mcg/100g to 5000mcg/100g             |
|     |                            | Vitamin C                                                                                                                                                                                                                                                            | AOAC 20 <sup>th</sup> Edition 2012.21, EASI-CHE-SOP-23; Issue No- 1; Issue Date: 07.06.2018 | 0.1mg-500mg/100g                       |
|     |                            | Aflatoxin B1, B2,G1 & G2                                                                                                                                                                                                                                             | EASI-CHE-SOP-18; Issue No-1;Issue Date 1.05.2018 EN 14123/AOAC 2005.08                      | 0.50 µg/kg to 500 µg/kg                |
|     |                            | Ochratoxin A                                                                                                                                                                                                                                                         | EASI-CHE-SOP-18; Issue No-1;Issue Date 2.05.2018 EN 14132                                   | 0.50 µg/kg to 500 µg/kg                |
|     |                            | Fatty Acid Profile                                                                                                                                                                                                                                                   |                                                                                             |                                        |
|     |                            | Saturated Fatty Acids<br>Butyric acid ,Caproic acid ,Caprylic acid ,Capric acid ,Lauric acid ,Tridecanoic acid ,Myristic acid ,Entadecanoic acid ,Palmtic acid ,Heptadecanoic acid ,Stearic acid ,Aracidic acid ,Henicosadienoic acid ,Behenic acid, Lignoceric acid | AOAC 20 <sup>th</sup> Edn. 996.01                                                           | 0.10 to 99.5 g/100g                    |
|     |                            | Mono Unsaturated Fatty Acid (Myristoleic acid ,Cis-10-Pentadecnoic acid ,Palmitoleic acid ,Cis-10-Heptadecanoic acid ,Trans-9-Eladic acid ,Cis-9-Oleic                                                                                                               | AOAC 20 <sup>th</sup> Edn. 996.01                                                           | 0.10 to 99.5 g/100g                    |

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| Sl. | Product / Material of Test                    | Specific Test Performed                                                                                                                                                                                                                                             | Test Method Specification against which tests are performed             | Range of Testing / Limits of Detection |
|-----|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------------|
|     |                                               | acid ,Cis-11-Eicosanoic acid ,Erucic acid ,Tricosanoic acid ,Nervionic acid )                                                                                                                                                                                       |                                                                         |                                        |
|     |                                               | Poly Unsaturated Fatty Acid(Linolelaidic acid ,Linoleic acid ,Gamma Linolenic acid ,Alpha Linolenic acid ,Cis-11-14-Eicosadienoic acid ,Cis-8,11,14-Eicosatrienoic acid ,Cis-11,14,17-Eicosatrienoic acid ,Arachidonic acid ,Cis-13,16-Docosadienoic acid ,EPA,DHA) | AOAC 20 <sup>th</sup> Edn. 996.01                                       | 0.10 to 99.5 g/100g                    |
|     |                                               | Trans Fatty Acid (Trans-9-Eladic acid ,Linolelaidic acid )                                                                                                                                                                                                          | AOAC 20 <sup>th</sup> Edn. 996.01                                       | 0.10 to 99.5 g/100g                    |
|     |                                               | Cholesterol                                                                                                                                                                                                                                                         | AOAC 20 <sup>th</sup> Edn. 994.10                                       | 10 to 20000 mg/kg                      |
|     |                                               | Viscosity                                                                                                                                                                                                                                                           | EASI-CHE-SOP-08; Issue No-1;Issue Date-19.05.2016                       | 15 to 2000000 cp                       |
|     |                                               | Water Activity                                                                                                                                                                                                                                                      | EASI-CHE-SOP-17 ;Issue No- 1;Issue Date:18.04.2018                      | 0.0100 to 0.9999                       |
|     |                                               | Phosphorous                                                                                                                                                                                                                                                         | AOAC 20 <sup>th</sup> Edn. 995.11; AOAC 20 <sup>th</sup> Edn. 931.06    | 40 to 10000 mg/kg                      |
|     |                                               | Water Activity                                                                                                                                                                                                                                                      | EASI-CHE-SOP-17 ;Issue No- 1;Issue Date:18.04.2018                      | 0.0100 to 0.9999                       |
| 2.  | <b>Nutraceuticals and Functional foods</b>    |                                                                                                                                                                                                                                                                     |                                                                         |                                        |
|     | <b>A) Nutraceuticals and Functional foods</b> | Moisture                                                                                                                                                                                                                                                            | IS 1656:2007, RA 2012/ AOAC 20 <sup>th</sup> Edn. 927.05; IS 16072:2012 | 0.1 to 15 g/100g                       |
|     |                                               | Total Ash                                                                                                                                                                                                                                                           | IS 1656:2007, RA 2012/ AOAC 20 <sup>th</sup> Edn. 945.46                | 0.1 to 15 g/100g                       |

**Laboratory** Eurofins Analytical Services India Private Limited, First Floor, Plot No. 157, Udyog Vihar, Phase I, Gurugram, Haryana

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

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**Validity** 12.10.2017 to 11.10.2019 **Last Amended on** 10.10.2018

| Sl. | Product / Material of Test         | Specific Test Performed           | Test Method Specification against which tests are performed            | Range of Testing / Limits of Detection |
|-----|------------------------------------|-----------------------------------|------------------------------------------------------------------------|----------------------------------------|
|     |                                    | Total fat                         | IS 1656:2007, RA 2012/ AOAC 20 <sup>th</sup> Edn. 945.48               | 0.2 to 50 g/100g                       |
|     |                                    | Protein                           | AOAC 20 <sup>th</sup> Edn. 991.20                                      | 0.5 to 50 g/100g                       |
|     |                                    | Total Carbohydrates               | IS 1656:2007, RA 2012 AOAC 986.25                                      | 1 to 100 g/100g                        |
| 3.  | Marine /Aqua culture Food Products |                                   |                                                                        |                                        |
|     | A) Fish and Fishery products       | pH                                | AOAC 20 <sup>th</sup> Edn. 943.02                                      | 1 to 13                                |
|     |                                    | Total Solids                      | AOAC 20 <sup>th</sup> Edn. 952.08                                      | 1 to 90 g/100g                         |
|     |                                    | Moisture                          | AOAC 20 <sup>th</sup> Edn. 952.08                                      | 0.1 to 80 g/100g                       |
|     |                                    | Alkalinity (as Sodium carbonates) | IS 7224:2006,RA 2010                                                   | 2 to 10000 mg/kg                       |
|     |                                    | Protein                           | AOAC 20 <sup>th</sup> Edn. 920.87                                      | 0.5 to 40 g/100g                       |
|     |                                    | Sulphur dioxide                   | AOAC 20 <sup>th</sup> Edn. 962.16<br>AOAC 20 <sup>th</sup> Edn. 990.28 | 10 to 1000 mg/kg                       |
|     |                                    | Acidity                           | AOAC 20 <sup>th</sup> Edn. 942.15                                      | 0.1 to 5 g/100g                        |
|     |                                    | Chloride (as NaCl)                | AOAC 20 <sup>th</sup> Edn. 937.09                                      | 1000 to 150000 mg/kg                   |
|     |                                    | Total Carbohydrates               | IS 1656:2007 RA 2012, AOAC 20 <sup>th</sup> Edn. 986.25                | 1 to 100 g/100g                        |
|     |                                    | Fat                               | AOAC 20 <sup>th</sup> Edn. 948.15                                      | 0.2 to 30 g/100g                       |
|     |                                    | Energy Value                      | EASI-GEN-SOP-14 ;<br>Issue No- 1; Issue Date: 06.11.2015               | 50 to 700 kcal/100gm                   |