

**Laboratory** ARBRO Pharmaceuticals Private Limited (Analytical Division), 4/9, Kirti Nagar, Industrial Area, New Delhi  
 Location 1: 4/9, Kirti Nagar, Industrial Area, New Delhi  
 Location 2: 6/13, Kirti Nagar, Industrial Area, New Delhi

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

**Discipline** Biological Testing **Issue Date** 29.02.2016

**Certificate Number** T-0575 **Valid Until** 22.11.2016

**Last Amended on** - **Page** 1 of 59

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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**LOCATION: 1**

**I. FOOD AND AGRICULTURAL PRODUCTS**

**1. Milk & dairy products**

<b>a.</b>	<b>Condensed milk/ partly skimmed/ skimmed</b>	Total plate count	IS 5402: 2012 ISO 4833: 2003	$\geq 10$ cfu/g $\geq 1$ cfu/mL
		<b>condensed milk, Dairy whitener/ Dahi/Cheese / hard/Processed, spread/ Ice cream/ ice cream dry mix/ ice cream frozen desert/ Ice candy/ Milk powder/ partly skimmed/whey powder/ Milk flavored/ Milk pasteurized/ Paneer/ Sweetened</b>	Yeast and mold count	IS 5403: 1999 ISO 21527: 2008
	<b>condensed Milk UHT/ Casein edible, Milk sterilized/ Whole Milk Powder/ Butter Pasteurized/ Butter oil/Ghee</b>	Enumeration of <i>Escherichia coli</i>	IS 5887 (Part 1): 1976 (RA 2005) ISO 16649: 2001	$\geq 10$ cfu/g $\geq 1$ cfu/mL
		Detection of <i>Escherichia coli</i>	IS 5887 (Part 1): 1976 (RA 2005) ISO 16649: 2008	Present or Absent per g or mL
	<b>condensed Milk UHT/ Casein edible, Milk sterilized/ Whole Milk Powder/ Butter Pasteurized/ Butter oil/Ghee</b>	Enumeration of Coliform	IS 5401 (Part 1): 2012 ISO 4832: 2006	$\geq 10$ cfu/g $\geq 1$ cfu/mL
		Detection of Coliform	IS 5401 (Part 1): 2012 ISO 4831: 2006	Present or Absent per g or mL
	<b>condensed Milk UHT/ Casein edible, Milk sterilized/ Whole Milk Powder/ Butter Pasteurized/ Butter oil/Ghee</b>	Detection of <i>Staphylococcus aureus</i>	IS 5587 (Part 8): 2002 ISO 6888:1:1999 ISO: 6888:3:2003	Present or Absent per g or mL
		Enumeration of <i>Staphylococcus aureus</i>	IS 5587 (Part 8): 2002 ISO 6888:1:1999 ISO 6888:1:1999	$\geq 10$ cfu/g $\geq 1$ cfu/mL

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**Certificate Number** T-0575 **Valid Until** 22.11.2016

**Last Amended on** - **Page** 2 of 59

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Condensed milk/ partly skimmed/ skimmed	Detection of <i>Listeria Spp./ Listeria monocytogenes</i>	IS: 14988 (Part 1): 2001 ISO: 11290 Part1: 2004	Present or Absent per 25 g or 25 mL
	condensed milk, Dairy whitener/ Dahi/Cheese / hard/Processed, spread/ Ice cream/ ice cream dry mix/ ice cream frozen desert/ Ice candy/ Milk powder/ partly skimmed/whey powder/ Milk flavored/ Milk pasteurized/ Paneer/ Sweetened condensed Milk UHT/ Casein edible, Milk sterilized/ Whole Milk Powder/ Butter Pasteurized/ Butter oil/Ghee	Enumeration of <i>Listeria monocytogenes</i>	IS 14988 (Part 1): 2001 ISO 11290 (Part I): 2004	$\geq 10$ cfu/g $\geq 1$ cfu/mL
		Detection of Faecal streptococci	IS 5887 (Part 2): 1976	Present or Absent per g or mL
		Enumeration of Enterobacteriaceae	ISO 21528 (II): 2004 IS 7402: 1993	$\geq 10$ cfu/g $\geq 1$ cfu/mL
		Enterobacteriaceae (Enumeration by MPN)	ISO 21528 (II): 2004 IS 7402: 1993	0.3 MPN/g to 110 MPN/g
		Detection of Enterobacteriaceae	ISO 21528 (II):2004 IS 7402: 1993	Present or Absent per g or mL
		Detection of <i>Salmonella</i>	IS 5887 (Part 3): 1999 ISO 6579: 2002	Present or Absent per g or mL
		Detection of <i>Shigella</i>	IS 5887 (Part 7): 1999 ISO 21567: 2004	Present or Absent per g or mL
		Proteolytic bacteria count	IS 4251: 1967	$\geq 10$ cfu per g or mL
		Lipolytic bacteria count	IS 4251: 1967	$\geq 10$ cfu per g or mL
		Detection of <i>Vibrio cholera</i> & <i>Vibrio parahaemolyticus</i>	IS 5887 (Part 5): 1976 (RA 2005)	Present or Absent per g or mL
		Flat sour spores organism	BAM/AACC 10 <sup>th</sup> Edition, P 41, 42	Present or Absent per g or mL

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**Discipline** Biological Testing **Issue Date** 29.02.2016

**Certificate Number** T-0575 **Valid Until** 22.11.2016

**Last Amended on** - **Page** 3 of 59

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Condensed milk/ partly skimmed/ skimmed condensed milk, Dairy whitener/ Dahi/Cheese / hard/Processed, spread/ Ice cream/ ice cream dry mix/ ice cream frozen desert/ Ice candy/ Milk powder/ partly skimmed/whey powder/ Milk flavored/ Milk pasteurized/ Paneer/ Sweetened condensed Milk UHT/ Casein edible, Milk sterilized/ Whole Milk Powder/ Butter Pasteurized/ Butter oil/Ghee	Thermophilic spore count (Total Aerobic, H <sub>2</sub> S, Non-H <sub>2</sub> S Anaerobic)	AACC/ APL/MIB/STP-020 Issue No.: 02 Issue Date: 13.09.2014	≥ 10 cfu/g ≥ 1 cfu/mL
		Mesophilic spore count, anaerobic and aerobic	APL/MIB/STP-020 Issue No.: 02 Issue Date: 13.09.2014	≥ 10 cfu/g ≥ 1cfu/mL
		Methylene Blue Reduction Test (MBRT)	IS 1479 (Part 3): 1977	Qualitative
		Accelerated Storage Test	IS 1166: 1986	Qualitative
		F. streptococcus	IS 5887 (Part 2): 1976	Present or Absent per g or mL
b.	Cream Sterilized	Incubation test	IS 2860: 1964 (RA 2001)	Present or Absent per g or mL

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**Discipline** Biological Testing **Issue Date** 29.02.2016

**Certificate Number** T-0575 **Valid Until** 22.11.2016

**Last Amended on** - **Page** 4 of 59

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
2.	<b>Honey and Honey products</b>			
a.	<b>Honey &amp; Honey related products</b>	Total Plate Count	IS 5402: 2012 ISO 4833: 2003	≥ 10 cfu/g
		Yeast & Mold Count	IS 5403: 1999 ISO 21527: 2008	≥ 10 cfu/g
		Enumeration of <i>Escherichia coli</i>	IS 5887 (Part I): 1976 (RA 2005) ISO 16649: 2001	≥ 10 cfu/g
		Detection of <i>Escherichia coli</i>	IS 5887 (Part 1): 1976 (RA 2005) ISO 16649:2001	Present or Absent per g
		Enumeration of <i>Staphylococcus aureus</i>	IS 5587 (Part 8): 2002 ISO 6888:1: 1999 ISO 6888:3: 2003	≥ 10 cfu/g
		Detection of <i>Staphylococcus aureus</i>	IS 5587 (Part 8): 2002 ISO 6888:1: 1999 ISO 6888:3: 2003	Present or Absent per g
		Detection of <i>Salmonella</i>	IS 5887 (Part 3): 1999 ISO 6579: 2002	Present or Absent per 25 g
		Detection of <i>Shigella</i>	IS 5887 (Part 7): 1999 ISO 21567: 2004	Present or Absent per 25 g
		Enumeration of Coliform	IS 5401 (Part 1): 2012 ISO 4832: 2006	≥ 10 cfu/g

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**Discipline** Biological Testing **Issue Date** 29.02.2016

**Certificate Number** T-0575 **Valid Until** 22.11.2016

**Last Amended on** - **Page** 5 of 59

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	<b>Honey &amp; Honey related products</b>	Detection of Coliform	IS 5401 (Part 1): 2012 ISO 4831: 2006	Present or Absent per g
		Detection of <i>Listeria Spp./ Listeria monocytogenes</i>	IS 14988 (Part 1): 2001 ISO 11290 (Part 1): 2004	Present or Absent per 25 g
		Detection of Fecal streptococci	IS 5887 (Part 2): 1976	Present or Absent per g
		Detection of <i>Vibrio cholera</i> and <i>Vibrio parahaemolyticus</i>	IS 5887 (Part 5): 1976	Present or Absent per g
<b>3.</b>	<b>Beverages (Alcoholic/Non-Alcoholic)</b>			
<b>a.</b>	<b>Soft Drinks/ Non-Alcoholic Beverages/ Alcoholic Beverages/ Vinegars/Carbonated Water/Beer</b>	Total Plate Count	IS 5402: 2012 ISO 4833: 2003	≥ 1 cfu/mL
		Yeast & Mold count	IS 5403: 1999 ISO 21527: 2008	≥ 1 cfu/mL
		Enumeration of <i>Escherichia coli</i>	IS 5887 (Part 1): 1976 (RA 2005) ISO 16649: 2001	≥ 1 cfu/mL
		Detection of <i>Escherichia coli</i>	IS 5887 (Part 1): 1976 (RA 2005) ISO 16649: 2008	Present or Absent per mL
		Detection of Coliform	IS 5401 (Part 1): 2012 ISO 4831: 2006	Present or Absent per mL
		Enumeration of Coliform (MPN)	IS 5401 (Part 2): 2002	0.3 MPN per mL to 110 MPN per mL

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

**Discipline** Biological Testing **Issue Date** 29.02.2016

**Certificate Number** T-0575 **Valid Until** 22.11.2016

**Last Amended on** - **Page** 6 of 59

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	<b>Soft Drinks/ Non-Alcoholic Beverages/ Alcoholic Beverages/ Vinegars/Carbonated Water/Beer</b>	Coliform (Only for Drinks containing alcohol)	IS 3752: 2005	≥ 1 cfu/mL
		Enumeration of Coliform	IS 5401 (Part 1): 2012 ISO 4831:2006	≥ 1 cfu/mL
		Detection of <i>Listeria Spp./ Listeria monocytogenes</i>	IS 14988 (Part 1): 2001 ISO 11290 (Part 1): 2004	Present or Absent per 25 mL
		Detection of <i>Vibrio parahaemolyticus</i> & <i>Vibrio cholera</i>	IS 5887 (Part 5): 1976	Present or Absent per mL
		Detection of Faecal streptococci	IS 5887 (Part 2): 1976	Present or Absent per mL
		Enumeration of Enterobacteriaceae	ISO 21528 (II): 2004 IS 7402: 1993	≥ 1 cfu/mL
		Detection of Enterobacteriaceae	ISO 21528 (II): 2004 IS 7402: 1993	Present or Absent per mL
		Detection of <i>Staphylococcus aureus</i>	IS 5587 (Part 8): 2002 ISO 6888:1:1999 (RA 2005) ISO 6888: 3: 2003	Present or Absent per mL
		Enumeration of <i>Staphylococcus aureus</i>	IS 5587 (Part 8): 2002 ISO 6888: 1: 1999 ISO 6888: 3: 2003	≥ 1 cfu/mL
	Detection of <i>Shigella</i>	IS 5887 (Part 7): 1999 ISO 21567: 2004	Present or Absent per 25 mL	

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

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**Certificate Number** T-0575 **Valid Until** 22.11.2016

**Last Amended on** - **Page** 7 of 59

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Soft Drinks/ Non-Alcoholic Beverages/ Alcoholic Beverages/ Vinegars/Carbon ated Water/Beer	Detection of <i>Bacillus cereus</i>	IS 5887 (Part 6): 2002	Present or Absent per mL
		Enumeration of <i>Bacillus cereus</i>	IS 5887 (Part 6): 2002	≥ 1 cfu/mL
		Detection of <i>Salmonella</i>	IS 5887 (Part 3): 1999 ISO 6579:2002	Present or Absent per 25 mL
<b>4.</b>	<b>Bakery and Confectionery products</b>			
<b>a.</b>	<b>Chocolate, and chocolate product, cookies, Chewing gum, Bubble gum, Hard-boiled confectionery, Toffees, Chocolate powder, chocolate liquor, pastry, cake, biscuit, bread, food yeast</b>	Total Plate Count	IS 5402: 2012 ISO 4833: 2003	≥ 10 cfu/g
		Yeast and Mold	IS 5403: 1999 ISO 21527: 2008	≥ 10 cfu/g
		Enumeration of <i>Escherichia coli</i>	IS 5887 (Part 1): 1976 (RA 2005) ISO 16649: 2001	≥ 10 cfu/g
		Detection of <i>Escherichia coli</i>	IS 5887 (Part 1): 1976 (RA 2005) ISO16649: 2008	Present or Absent per g
		Enumeration of Coliform	IS 5401 (Part 1): 2012 ISO 4832: 2006	≥ 10 cfu/g
		Detection of Coliform	IS 5401 (Part 1): 2012 ISO 4832: 2006	Present or Absent per g

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**Certificate Number** T-0575 **Valid Until** 22.11.2016

**Last Amended on** - **Page** 8 of 59

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Chocolate, and chocolate product, cookies, Chewing gum, Bubble gum, Hard-boiled confectionery, Toffees, Chocolate powder, chocolate liquor, pastry, cake, biscuit, bread, food yeast	Detection of <i>Staphylococcus aureus</i>	IS 5587 (Part 8): 2002 ISO 6888:1: 1999 ISO 6888:3: 2003	Present or Absent per g
		Enumeration of <i>Staphylococcus aureus</i>	IS 5587 (Part 8): 2002 ISO 6888: I: 1999 ISO 6888: III: 2003	≥ 10 cfu/g
		Detection of <i>Salmonella</i>	IS 5887 (Part 3): 1999 ISO 6579:2002	Present or Absent per 25 g
		Detection of <i>Shigella</i>	IS 5887 (Part 7): 1999 ISO 21567:2004	Present or Absent per 25 g
		Detection of <i>Listeria Spp./ Listeria monocytogenes</i>	IS 14988 (Part 1): 2001 ISO 11290: (I) : 2004	Present or Absent per 25 g
		Detection of <i>Vibrio cholera &amp; Vibrio parahaemolyticus</i>	IS 5887 (Part 5): 1976	Present or Absent per g or mL
		Enumeration of Enterobacteriaceae	ISO 21528 (II): 2004 IS 7402: 1993	≥ 10 cfu/g
		Detection of Enterobacteriaceae	ISO 21528 (II): 2004 IS 7402: 1993	Present or Absent per g or mL



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

**Discipline** Biological Testing **Issue Date** 29.02.2016

**Certificate Number** T-0575 **Valid Until** 22.11.2016

**Last Amended on** - **Page** 9 of 59

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
5.	<b>Fruit and Fruit Products</b>			
a.	<b>Unprocessed/ Processed/ Frozen/ Fresh Fruit &amp; Dehydrated Fruit/ Canned Fruit, Mango pulp canned, Orange Juice, Mango nectar, Apple Juice, Fruit pulps, Processed fruits</b>	Total Plate Count	IS 5402: 2012 ISO 4833: 2003	≥ 10 cfu/g
		Yeast & Mould Count	IS 5403: 1999 ISO 21527: 2008	≥ 10 cfu/g
		Detection of <i>Escherichia coli</i>	IS 5887 (Part 1): 1976 (RA 2005) ISO 16649: 2001	Present or Absent per g
		Enumeration of <i>Escherichia coli</i>	IS 5887 (Part 1): 1976 (RA 2005) ISO 16649: 2008	≥ 10 cfu/g
		Enumeration of Coliform	IS 5401 (Part 1): 2012 ISO 4832: 2006	≥ 10 cfu/g
		Enumeration of Coliform (MPN)	IS 5401 (Part 2): 2002	0.3 MPN/g to 110 MPN/g
		Detection of Coliform	IS 5401 (Part 1): 2012 ISO 4832: 2006	Present or Absent per g
		Detection of <i>Staphylococcus aureus</i>	IS 5587 (Part 8): 2002 ISO 6888: I: 1999 ISO 6888: III: 2003	Present or Absent per g
	Enumeration of <i>Staphylococcus aureus</i>	IS 5587 (Part 8): 2002 ISO 6888: 1: 1999 ISO 6888: 3: 2003	≥ 10 cfu/g	

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

**Discipline** Biological Testing **Issue Date** 29.02.2016

**Certificate Number** T-0575 **Valid Until** 22.11.2016

**Last Amended on** - **Page** 10 of 59

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Unprocessed/ Processed/ Frozen/ Fresh Fruit & Dehydrated Fruit/ Canned Fruit, Mango pulp canned, Orange Juice, Mango nectar, Apple Juice, Fruit pulps, Processed fruits	Detection of <i>Salmonella</i>	IS 5887 (Part 3): 1999 ISO 6579: 2002	Present or Absent per 25 g
		Detection of <i>Shigella</i>	IS 5887 (Part 7): 1999 ISO 21567:2004	Present or Absent per 25 g
		Detection of <i>Listeria Spp./ Listeria monocytogenes</i>	IS 14988 (Part 1): 2001 ISO 11290 (Part1): 2004	Present or Absent per 25 g
		Detection of <i>Bacillus cereus</i>	IS 5887 (Part 6): 2002 ISO 7932: 2004	Present or Absent per g
		Enumeration of <i>Bacillus cereus</i>	IS 5887 (Part 6): 2002 ISO 7932: 2004	≥ 10 cfu/g
		Detection of <i>Vibrio cholera &amp; Vibrio parahaemolyticus</i>	IS 5887 (Part 5): 1976	Present or Absent per g
		Detection of Faecal streptococci	IS 5887 (Part 2): 1976	Present or Absent per g
		Enumeration of Enterobacteriaceae	ISO 21528 (II): 2004 IS 7402: 1993	≥ 10 cfu/g
		Detection of Enterobacteriaceae	ISO 21528 (II): 2004 IS 7402: 1993	Present or Absent per g
	Thermophilic spore count (Total Aerobic, H <sub>2</sub> S, Non-H <sub>2</sub> S Anaerobic)	AACC 40-42, 10 <sup>th</sup> Edition	≥ 10 cfu/g	

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

**Discipline** Biological Testing **Issue Date** 29.02.2016

**Certificate Number** T-0575 **Valid Until** 22.11.2016

**Last Amended on** - **Page** 11 of 59

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Unprocessed/ Processed/ Frozen/ Fresh Fruit & Dehydrated Fruit/ Canned Fruit, Mango pulp canned, Orange Juice, Mango nectar, Apple Juice, Fruit pulp, Processed fruits	Mesophilic spore count, anaerobic and aerobic	APL/MIB/SOP-020 Issue No.: 02 Issue Date: 13.09.2014	≥ 10 cfu/g
		Flat sour organism	AACC 40-42, 10 <sup>th</sup> Edition	≥ 10 cfu/g
		Incubation Test	IS 2860: 1964	Qualitative
		<i>Clostridium Perferingens</i>	IS 5887 (Part 4): 1999	Qualitative
<b>6.</b>	<b>Fish and Sea Foods</b>			
<b>a.</b>	<b>Fish And Fish Products, Sea Foods</b>	Total Plate Count	IS 5402: 2012 ISO 4833: 2003	≥ 10 cfu/g
		Yeast and mold	IS 5403: 1999 ISO 21527: 2008	≥ 10 cfu/g
		Enumeration of <i>Escherichia coli</i>	IS 5887 (Part 1): 1976 (RA 2005) ISO 16649: 2001	≥ 10 cfu/g
		Detection of <i>Escherichia coli</i>	IS 5887 (Part 1): 1976 (RA 2005) ISO 16649: 2008	Present or Absent per g
		Enumeration of Coliform	IS 5401 (Part 1): 2012 ISO 4832: 2006	≥ 10 cfu/g

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

**Discipline** Biological Testing **Issue Date** 29.02.2016

**Certificate Number** T-0575 **Valid Until** 22.11.2016

**Last Amended on** - **Page** 12 of 59

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	<b>Fish And Fish Products, Sea Foods</b>	Detection of Coliform	IS 5401 (Part 1): 2012 ISO 4832: 2006	Present or Absent per g
		Enumeration of <i>Staphylococcus aureus</i>	IS 5587 (Part 8): 2002 ISO 6888: 1: 1999 ISO 6888: 3: 2003	≥ 10 cfu/g
		Detection of <i>Staphylococcus aureus</i>	IS 5587 (Part 8): 2002 ISO 6888: I: 1999 ISO 6888: III: 2003	Present or Absent per g
		Detection of <i>Salmonella</i>	IS 5887 (Part 3): 1999 ISO 6579: 2002	Present or Absent per 25 g
		Detection of <i>Shigella</i>	IS 5887 (Part 7): 1999 ISO 21567:2004	Present or Absent per 25 g
		Detection of <i>Listeria Spp./ Listeria monocytogenes</i>	IS 14988 (Part 1): 2001 ISO 11290 (Part1): 2004	Present or Absent per g
		Enumeration of <i>Bacillus cereus</i>	IS 5887 (Part 6): 2002 ISO 7932: 2004	≥ 10 cfu/g
		Detection of <i>Bacillus cereus</i>	IS 5887 (Part 6): 2002 ISO 7932: 2004	Present or Absent per g
		Detection of <i>Vibrio cholera</i> and <i>Vibrio parahaemolyticus</i>	IS 5887 (Part 5): 1976	Present or Absent per g
	Detection of Faecal streptococci	IS 5887 (Part 2): 1976	Present or Absent per g	

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**Discipline** Biological Testing **Issue Date** 29.02.2016

**Certificate Number** T-0575 **Valid Until** 22.11.2016

**Last Amended on** - **Page** 13 of 59

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	<b>Fish And Fish Products, Sea Foods</b>	Enumeration of Enterobacteriaceae	ISO 21528 (II): 2004 IS 7402: 1993	≥ 10 cfu/gm
		Detection of Enterobacteriaceae	ISO 21528 (II): 2004 IS 7402: 1993	Present or Absent per g
		Incubation test	IS 3044: 1973 FSSAI Manual 14	Qualitative
		<i>Clostridium Perferingens</i>	IS 5887 (Part 4): 1999	Present or Absent per g
		Enumeration of <i>Pseudomonas Spp.</i>	IS 14843: 2000	≥ 10 cfu/g
		Thermophilic spore count (Total Aerobic, H <sub>2</sub> S, Non-H <sub>2</sub> S Anaerobic)	AACC 40-42, 10 <sup>th</sup> Edition	≥ 10 cfu/g
		Mesophilic spore count, anaerobic and aerobic	APL/MIB/SOP-020 Issue No.: 02 Issue Date: 11-01-2012	≥ 10 cfu/g
		Flat sour organism	AACC 40-42, 10 <sup>th</sup> Edition	≥ 10 cfu/g
7.	<b>Spice and Condiments</b>	Total Plate Count	IS 5402: 2012 ISO 4833: 2003	≥ 10 cfu/g
		Yeast and Mold Count	IS 5403: 1999 ISO 21527: 2008	≥ 10 cfu/g
		Detection of <i>Escherichia coli</i>	IS 5887 (Part 1): 1976 (RA 2005) ISO 16649: 2001	Present or Absent per g

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**Discipline** Biological Testing **Issue Date** 29.02.2016

**Certificate Number** T-0575 **Valid Until** 22.11.2016

**Last Amended on** - **Page** 14 of 59

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Spice and Condiments	Enumeration of <i>Escherichia coli</i>	IS 5887 (Part 1): 1976 (RA 2005) ISO 16649: 2001	≥ 10 cfu/g
		Detection of <i>Staphylococcus aureus</i>	IS 5587 (Part 8): 2002 ISO 6888:1:1999 ISO 6888:3:2003	Present or Absent per g
		Enumeration of <i>Staphylococcus aureus</i>	IS 5587 (Part 8): 2002 ISO 6888: 1: 1999 ISO 6888: 3: 2003	≥ 10 cfu/g
		Detection of <i>Listeria Spp./ Listeria monocytogenes</i>	IS 14988 (Part 1): 2001 ISO 11290 (Part1): 2004	Present or Absent per g
		Detection of <i>Vibrio cholera &amp; Vibrio parahaemolyticus</i>	IS 5887 (Part 5): 1976	Present or Absent per g
		Detection of Enterobacteriaceae	ISO 21528 (II): 2004 IS 7402: 1993	Present or Absent per g
		Enumeration of Enterobacteriaceae	ISO: 21528 (II): 2004 IS 7402: 1993	≥ 10 cfu/g
		Detection of <i>Salmonella</i>	IS 5887 (Part 3): 1999 ISO 6579: 2002	Present or Absent per g
		Detection of <i>Shigella</i>	IS 5887 (Part 7): 1999 ISO 21567: 2004	Present or Absent per g

**Laboratory** ARBRO Pharmaceuticals Private Limited (Analytical Division), 4/9, Kirti Nagar, Industrial Area, New Delhi  
 Location 1: 4/9, Kirti Nagar, Industrial Area, New Delhi  
 Location 2: 6/13, Kirti Nagar, Industrial Area, New Delhi

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

**Discipline** Biological Testing **Issue Date** 29.02.2016

**Certificate Number** T-0575 **Valid Until** 22.11.2016

**Last Amended on** - **Page** 15 of 59

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Spice and Condiments	Enumeration of Coliform	IS 5401 (Part 1): 2012 ISO 4832: 2006	≥ 10 cfu/g
		Detection of Coliform	IS 5401 (Part 1): 2012 ISO 4832: 2006	Present or Absent per g
<b>8.</b>	<b>Infant Foods</b>			
<b>a.</b>	Infant Foods, Infant milk, Baby Food, Weaning Food, milk based complementary food	Total Plate Count	IS 5402: 2012 ISO 4833: 2003	≥ 10 cfu/g
		Detection of E.coli	IS 5887 (Part 3): 1999 ISO 6579: 2002	Present or Absent per g
		Enumeration of <i>Escherichia coli</i>	IS 5887 (Part 1): 1976 (RA 2005) ISO 16649:2001	≥ 10 cfu/g
		Detection of <i>Staphylococcus aureus</i>	IS 5587 (Part 8): 2002 ISO 6888: 1: 1999 ISO 6888: 3: 2003	Present or Absent per g
		Enumeration of <i>Staphylococcus aureus</i>	IS 5587 (Part 8): 2002 ISO 6888: 1: 1999 ISO 6888: 3: 2003	≥ 10 cfu/g
		Detection of Coliform	IS 5401 (Part 1): 2012 ISO 4832: 2006	Present or Absent per g
		Enumeration of Coliform	IS 5401 (Part 1): 2012 ISO 4832: 2006	≥ 10 cfu/g

**Laboratory** ARBRO Pharmaceuticals Private Limited (Analytical Division), 4/9, Kirti Nagar, Industrial Area, New Delhi  
 Location 1: 4/9, Kirti Nagar, Industrial Area, New Delhi  
 Location 2: 6/13, Kirti Nagar, Industrial Area, New Delhi

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

**Discipline** Biological Testing **Issue Date** 29.02.2016

**Certificate Number** T-0575 **Valid Until** 22.11.2016

**Last Amended on** - **Page** 16 of 59

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	<b>Infant Foods, Infant milk, Baby Food, Weaning Food, milk based complementary food</b>	Detection of <i>Salmonella</i>	IS 5887 (Part 3): 1999 ISO 6579: 2002	Present or Absent per g
		Detection of <i>Shigella</i>	IS 5887 (Part 7): 1999 ISO 21567: 2004	Present or Absent per g
		Yeast and Mould Count	IS 5403: 1999 ISO 21527: 2008	≥ 10 cfu/g
		Detection of <i>V. cholera</i> & <i>V. Parahaemolyticus</i>	IS 5887 (Part 5): 1976	Present or Absent per g
		Detection of <i>F.streptococcus</i>	IS 5887 (Part 2): 1976	Present or Absent per g
		Detection of <i>Listeria spp./Listeria monocytogenes</i>	IS 14988 (Part 1): 2001 ISO 11290 (Part I): 2004	Present or Absent per g
		Detection of <i>Bacillus cereus</i>	IS 5887 (Part 6): 2002 ISO 7932: 2004	Present or Absent per g
		Enumeration of <i>Bacillus cereus</i>	IS 5887 (Part 6): 2002 ISO 7932: 2004	≥ 10 cfu/g
		Detection of <i>Enterobacter sakazaakii</i>	ISO/TS 22964: 2006	Present or Absent per g
		Thermophilic spore count (Total Aerobic, H <sub>2</sub> S, Non-H <sub>2</sub> S Anaerobic)	AACC 40-42, 10 <sup>th</sup> Edition	≥ 10 cfu/g
	Mesophilic spore count, anaerobic and aerobic	APL/MIB/SOP-020 Issue No.: 02 Issue Date: 13.09.2014	≥ 10 cfu/g	



**Laboratory** ARBRO Pharmaceuticals Private Limited (Analytical Division), 4/9, Kirti Nagar, Industrial Area, New Delhi  
 Location 1: 4/9, Kirti Nagar, Industrial Area, New Delhi  
 Location 2: 6/13, Kirti Nagar, Industrial Area, New Delhi

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

**Discipline** Biological Testing **Issue Date** 29.02.2016

**Certificate Number** T-0575 **Valid Until** 22.11.2016

**Last Amended on** - **Page** 17 of 59

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
<b>9.</b>	<b>Cereals, Pulses &amp; Cereal Products</b>			
<b>a.</b>	<b>Wheat flour/ semolina/ Maida/ multi grain atta // Pulses/ Besan/ Rice And Rice Product/ Poha/ Murmura/ Corn Flour / Soya flour/ Soya Product/ Soya chunks/ corn flakes, Basmati rice</b>	Enumeration of <i>Escherichia coli</i>	IS 5887 (Part 1): 1976 (RA 2005) ISO 16649: 2001	≥ 10 cfu/g
Detection of <i>Escherichia coli</i>		IS 5887 (Part 1): 1976 (RA 2005) ISO 16649: 2001	Present or Absent per g	
Detection of <i>Salmonella</i>		IS 5887 (Part III): 1999 ISO 6579: 2002	Present or Absent per g	
Detection of <i>Shigella</i>		IS 5887 (Part 7): 1999 ISO 21567: 2004	Present or Absent per g	
Total Plate Count		IS 5402: 2012 ISO 4833: 2003	≥ 10 cfu/g	
Detection of Coliform		IS 5401 (Part 1): 2012 ISO 4832:2006	Present or Absent per g	
Enumeration of Coliform		IS 5401 (Part 1): 2012 ISO 4832: 2006	≥ 10 cfu/g	
Yeast and mould Count		IS 5403: 1999 ISO 21527: 2008	≥ 10 cfu/g	
Detection of Faecal streptococci		IS 5887 (Part 2): 1976 (RA 2005)	Present or Absent per g	
Enumeration of Fecal Streptococci	IS 5887 (Part 2): 1976 (RA 2005)	≥ 10 cfu/g		

**Laboratory** ARBRO Pharmaceuticals Private Limited (Analytical Division), 4/9, Kirti Nagar, Industrial Area, New Delhi  
 Location 1: 4/9, Kirti Nagar, Industrial Area, New Delhi  
 Location 2: 6/13, Kirti Nagar, Industrial Area, New Delhi

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

**Discipline** Biological Testing **Issue Date** 29.02.2016

**Certificate Number** T-0575 **Valid Until** 22.11.2016

**Last Amended on** - **Page** 18 of 59

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Wheat flour/ semolina/ Maida/ multi grain atta // Pulses/ Besan/ Rice And Rice Product/ Poha/ Murmura/ Corn Flour / Soya flour/ Soya Product/ Soya chunks/ corn flakes, Basmati rice	Detection of <i>Staphylococcus aureus</i>	IS 5587 (Part 8): 2002 ISO 6888:1:1999 IS 5887 (Part 2): 1976 (RA 2005) ISO 6888:3:2003	Present or Absent per g
		Enumeration of <i>Staphylococcus aureus</i>	IS 5587 (Part 8): 2002 ISO 6888:1:1999 ISO 6888:3:2003	≥ 10 cfu/g
		Detection of <i>Bacillus cereus</i>	IS 5887 (Part 6): 2002 ISO 7932: 2004	Present or Absent per g
		Enumeration of <i>Bacillus cereus</i>	IS 5887 (Part 6): 2002 ISO 7932: 2004	≥ 10 cfu/g
		Enumeration of Enterobacteriaceae	ISO 21528 (II): 2004 IS 7402: 1993	≥ 10 cfu/g
		Detection of Enterobacteriaceae	ISO 21528 (II): 2004 IS 7402: 1993	Present or Absent per g
		Detection of <i>Vibrio cholera</i> and <i>V. parahaemolyticus</i>	IS 5887 (Part 5): 1976	Present or Absent per 25 g
		Detection of <i>Listeria monocytogenes</i>	IS 14988 (Part 1): 2001 ISO 11290 (Part 1): 2004	Present or Absent per 25 g

**Laboratory** ARBRO Pharmaceuticals Private Limited (Analytical Division), 4/9, Kirti Nagar, Industrial Area, New Delhi  
 Location 1: 4/9, Kirti Nagar, Industrial Area, New Delhi  
 Location 2: 6/13, Kirti Nagar, Industrial Area, New Delhi

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

**Discipline** Biological Testing **Issue Date** 29.02.2016

**Certificate Number** T-0575 **Valid Until** 22.11.2016

**Last Amended on** - **Page** 19 of 59

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Wheat flour/ semolina/ Maida/ multi grain atta //	Thermophilic spore count (Total Aerobic, H <sub>2</sub> S, Non-H <sub>2</sub> S Anaerobic)	AACC 40-42, 10 edition	≥ 10 cfu/g
	Pulses/ Besan/ Rice And Rice Product/ Poha/ Murmura/ Corn Flour / Soya flour/ Soya Product/ Soya chunks/ corn flakes, Basmati rice	Mesophilic spore count, anaerobic and aerobic	APL/MIB/SOP-020 Issue No.: 02 Issue Date: 13.09.2014	≥ 10 cfu/g
		Flat sour spores organism	AACC 40-42,10 edition	≥ 10 cfu/g
		Detection of <i>Clostridium perfringens</i>	IS 5887 (Part 4): 1999 (RA 2005)	Present or Absent per 25 g
		Total bacterial count	IS 5402: 2002	≥ 10 cfu/g
<b>b.</b>	<b>Malted milk food</b>	Coliform count	IS 5401 (Part 1): 2002	≥ 10 cfu/g
		Yeast & mould count	IS 5403: 1999 (RA 2005)	≥ 10 cfu/g
		<i>Staphylococcus Aureus</i>	IS 5887 (Part 8): 2002	Present or Absent per g
		<i>E.coli</i>	IS 5887 (Part 1): 1976 (RA 2005)	Present or Absent per g
		<i>Salmonella</i>	IS 5887 (Part 3): 1999 (RA 2005)	Present or Absent per 25 g
		<i>Shigella</i>	IS 5887 (Part 7): 1999 (RA 2005)	Present or Absent per 25 g
		<i>Listeria monocytogenes</i>	IS 14988 (Part 1 & 2): 2001/2002	Present or Absent per 25 g
		Anaerobic spore count	IS 5887 (Part 4): 1976	≥ 10 cfu/g

**Laboratory** ARBRO Pharmaceuticals Private Limited (Analytical Division), 4/9, Kirti Nagar, Industrial Area, New Delhi  
 Location 1: 4/9, Kirti Nagar, Industrial Area, New Delhi  
 Location 2: 6/13, Kirti Nagar, Industrial Area, New Delhi

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

**Discipline** Biological Testing **Issue Date** 29.02.2016

**Certificate Number** T-0575 **Valid Until** 22.11.2016

**Last Amended on** - **Page** 20 of 59

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
10.	<b>Snacks and Instant Mixes/Ready to eat</b>			
a.	<b>Sweets &amp; variety of traditional sweets of perishable/ long lasting nature (Canned), Gulab jamun, Pedha, Brufi, Jilebi, All varieties of methais and laddoetc)/ baked products perishable &amp; non perishable), all varieties of Desserts, cake, biscuits, thin crust pizza base, pastries, patties, sandwich, puffs, cereal bars, fudge, toffees, fruit jellies, bread, rolls chocolava cake, buns, puddings, Ready to Serve Food in restaurants (coked veg &amp; non veg items such as Biryani, dal, Sabzi,pizza, pizza</b>	Total plate count	ISO 4833: 2003 IS 5402: 2012	≥ 10 cfu/g
Yeast and mold count		ISO 21527: 2008 IS 5403: 1993	≥ 10 cfu/g	
Enumeration of <i>Escherichia coli</i>		ISO 16649: 2001 IS 5887 (Part 1): 1976	≥ 10 cfu/g	
Detection of <i>Escherichia coli</i>		ISO 16649: 2001 IS 5887 (Part 1): 1976	Present or Absent per g	
Enumeration of Coliform		IS 5887 (Part 1): 1976 (RA 2005) ISO 16649: 2001	≥ 10 cfu/g	
Enumeration of Coliform (MPN)		IS 5401 (Part 2): 2002	0.3 MPN/g to 110 MPN/g	
Detection of Coliform		IS 5401 (Part 1): 2012 ISO 4832: 2006	Present or Absent per g	
Detection of <i>Staphylococcus aureus</i>		IS 5587 (Part 8): 2002 ISO 6888:1:1999 ISO 6888:3:2003	Present or Absent per g	
Enumeration of <i>Staphylococcus aureus</i>	IS 5587 (Part 8): 2002 ISO 6888:1:1999 ISO 6888:3:2003	≥ 10 cfu/g		
Detection of <i>Listeria Spp./</i>	IS 14988 (Part 1): 2001	Present or Absent per g		

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**Laboratory** ARBRO Pharmaceuticals Private Limited (Analytical Division), 4/9, Kirti Nagar, Industrial Area, New Delhi  
 Location 1: 4/9, Kirti Nagar, Industrial Area, New Delhi  
 Location 2: 6/13, Kirti Nagar, Industrial Area, New Delhi

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

**Discipline** Biological Testing **Issue Date** 29.02.2016

**Certificate Number** T-0575 **Valid Until** 22.11.2016

**Last Amended on** - **Page** 21 of 59

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	base, cold dough, burger, veg & non veg salad, pasta, Ready to eat snakes/Food Sauce/ Noodles / Vermicelli / Macaroni / Pickle/ Pasta / Potato Chips)	<i>Listeria monocytogenes</i>	ISO 11290 (Part II): 2004	
		Detection of Faecal streptococci	IS 5887 (Part 2): 1976	Present or Absent per g
		Enumeration of Faecal streptococci	IS 5887 (Part 2): 1976	≥ 10 cfu/g
		Enumeration of Enterobacteriaceae	ISO 21528 (II): 2004 IS 7402: 1993	≥ 10 cfu/g
		Enterobacteriaceae (Enumeration by MPN)	ISO 21528 (II): 2004	≥ 10 cfu/g
		Detection of Enterobacteriaceae	ISO 21528 (II): 2004 IS 7402: 1993	Present or Absent per g
		Detection of <i>Salmonella</i>	IS 5887 (Part 3): 1999 ISO 6579: 2002	Present or Absent per g
		Detection of <i>Shigella</i>	IS 5887 (Part 7): 1999 ISO 21567: 2004	Present or Absent per g
		Detection of <i>Enterobacter sakazakii</i>	ISO/TS 22964: 2006	Present or Absent per g
		Enumeration of <i>Pseudomonas spp.</i>	IS 14843: 2000	≥ 10 cfu/g
	Thermophilic spore count	IS 1679: 1960 (RA 1999)	≥ 10 cfu/g	
	Flat sour spore count	IS 1679: 1960 (RA 1999)	≥ 10 cfu/g	

**Laboratory** ARBRO Pharmaceuticals Private Limited (Analytical Division), 4/9, Kirti Nagar, Industrial Area, New Delhi  
 Location 1: 4/9, Kirti Nagar, Industrial Area, New Delhi  
 Location 2: 6/13, Kirti Nagar, Industrial Area, New Delhi

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

**Discipline** Biological Testing **Issue Date** 29.02.2016

**Certificate Number** T-0575 **Valid Until** 22.11.2016

**Last Amended on** - **Page** 22 of 59

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Thermophilic anaerobes	IS 1679: 1960 (RA 1999)	Present or Absent per 25 g
		Detection of <i>Clostridium perfringens</i>	IS 5887 (Part 4): 1999 (RA 2005)	Present or Absent per 25 g
		Detection of <i>Vibrio cholera</i> and <i>Vibrio parahaemolyticus</i>	IS 5887 (Part 5): 1976 (RA 2005)	Present or Absent per 25 g
		Faecal streptococci	IS 5887 (Part 2): 1976	Present or Absent per 25 g
<b>11.</b>	<b>Jams, Juices, Sauces &amp; Concentrates</b>			
<b>a.</b>	<b>Jam, Jellies, Marmalades</b>	Mould count	IS 5861: 1993 (RA 2005)	≥ 10 cfu/g
		Yeast & spores	AOAC-955.47	≥ 10 cfu/g
		Flat sour organism	BAM Chapter-21	Present or Absent per 10 g
		<i>Staphylococcus aureus</i>	IS 5887 (Part 2): 1976 (RA 2005)	Present or Absent per g
		<i>Salmonella</i>	IS 5887 (Part 3): 1999 (RA 2005)	Present or Absent per 25 g
		<i>Shigella</i>	IS 5887 (Part 7): 1999 (RA 2005)	Present or Absent per 25 g
		<i>E.coli</i>	IS 5887 (Part 1): 1976 (RA 2005)	Present or Absent per 25 g

**Laboratory** ARBRO Pharmaceuticals Private Limited (Analytical Division), 4/9, Kirti Nagar, Industrial Area, New Delhi  
 Location 1: 4/9, Kirti Nagar, Industrial Area, New Delhi  
 Location 2: 6/13, Kirti Nagar, Industrial Area, New Delhi

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

**Discipline** Biological Testing **Issue Date** 29.02.2016

**Certificate Number** T-0575 **Valid Until** 22.11.2016

**Last Amended on** - **Page** 23 of 59

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	<b>Jam, Jellies, Marmalades</b>	<i>Vibrio cholera</i>	IS 5887 (Part 5): 1976 (RA 2005)	Present or Absent per g
		Total plate count	IS 5402: 2002	≥ 10 cfu/g
<b>12.</b>	<b>Animal Feed</b>	Total plate count	ISO 4833: 2003 IS 5402: 2012	≥ 10 cfu/g
		Yeast and mold count	ISO 21527: 2008 IS 5403: 1993	≥ 10 cfu/g
		<i>Escherichia coli</i>	ISO 16649: 2001 IS 5887 (Part 1): 1976	Present or Absent per g
<b>13.</b>	<b>Nuts and nut products</b>			
<b>a.</b>	<b>Nut and Nut Product/ Dry Fruit</b>	Enumeration of <i>Escherichia coli</i>	IS 5887 (Part 1): 1976 (RA 2005) ISO 16649: 2001	≥ 10 cfu/g
		Detection of <i>Escherichia coli</i>	IS 5887 (Part 1): 1976 (RA 2005) ISO 16649: 2001	Present or Absent per g
		Detection of <i>Salmonella</i>	IS 5887 (Part 3): 1999 ISO 6579: 2002	Present or Absent per g
		Detection of <i>Shigella</i>	IS 5887 (Part 7): 1999 ISO 21567: 2004	Present or Absent per g
		Total Plate Count	IS 5402: 2012 ISO 4833: 2003	≥ 10 cfu/g

**Laboratory** ARBRO Pharmaceuticals Private Limited (Analytical Division), 4/9, Kirti Nagar, Industrial Area, New Delhi  
 Location 1: 4/9, Kirti Nagar, Industrial Area, New Delhi  
 Location 2: 6/13, Kirti Nagar, Industrial Area, New Delhi

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

**Discipline** Biological Testing **Issue Date** 29.02.2016

**Certificate Number** T-0575 **Valid Until** 22.11.2016

**Last Amended on** - **Page** 24 of 59

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	<b>Nut and Nut Product/ Dry Fruit</b>	Detection of Coliform	IS 5401 (Part 1): 2012 ISO 4832: 2006	Present or Absent per g
		Enumeration of Coliform	IS 5401 (Part 1): 2012 ISO 4832: 2006	≥ 10 cfu/g
		Yeast and mould	IS 5403: 1999 ISO 21527: 2008	≥ 10 cfu/g
		Detection of Faecal streptococci	IS 5887 (Part 2): 1976 (RA 2005)	Present or Absent per g
		Enumeration of Fecal Streptococci	IS 5887 (Part 2): 1976 (RA 2005)	≥ 10 cfu/g
		Detection of <i>Staphylococcus aureus</i>	IS 5587 (Part 8): 2002 ISO 6888:1:1999 IS 5887 (Part 2): 1976 (RA 2005) ISO 6888: 3: 2003	Present or Absent per g
		Enumeration of <i>Staphylococcus aureus</i>	IS 5587 (Part 8): 2002 ISO 6888:1:1999 ISO 6888: 3: 2003	≥ 10 cfu/g
		Detection of <i>Bacillus Cereus</i>	IS 5887 (Part 6): 2002 ISO 7932: 2004	Present or Absent per g
	Enumeration of <i>Bacillus cereus</i>	IS 5887 (Part 6): 2002 ISO 7932: 2004	≥ 10 cfu/g	



**Laboratory** ARBRO Pharmaceuticals Private Limited (Analytical Division), 4/9, Kirti Nagar, Industrial Area, New Delhi  
 Location 1: 4/9, Kirti Nagar, Industrial Area, New Delhi  
 Location 2: 6/13, Kirti Nagar, Industrial Area, New Delhi

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

**Discipline** Biological Testing **Issue Date** 29.02.2016

**Certificate Number** T-0575 **Valid Until** 22.11.2016

**Last Amended on** - **Page** 25 of 59

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	<b>Nut and Nut Product/ Dry Fruit</b>	Enumeration of Enterobacteriaceae	ISO 21528 (II): 2004 IS 7402: 1993	≥ 10 cfu/g
		Detection of Enterobacteriaceae	ISO 21528 (II): 2004 IS 7402: 1993	Present or Absent per g
		Detection of <i>Vibrio cholera</i> and <i>Vibrio parahaemolyticus</i>	IS 5887 (Part 5): 1976	Present or Absent per 25 g
		Detection of <i>Listeria monocytogenes</i>	IS 14988 (Part 1): 2001 ISO 11290 (Part 1): 2004	Present or Absent per 25 g
		Thermophilic spore count (Total Aerobic, H <sub>2</sub> S, Non-H <sub>2</sub> S Anaerobic)	AACC 40-42, 10 <sup>th</sup> Edition	≥ 10 cfu/g
		Mesophilic spore count, anaerobic and aerobic	APL/MIB/SOP-020, Issue No.: 02 Issue Date: 13.09.2014	≥ 10 cfu/g
		Flat sour spores organism	AACC 40-42, 10 <sup>th</sup> Edition	≥ 10 cfu/g
		Detection of <i>Clostridium perfringens</i>	IS 5887 (Part 4): 1999 (RA 2005)	Present or Absent per 25 g
<b>14.</b>	<b>Oil seeds &amp; By-Products</b>			
<b>a.</b>	<b>Oil seeds and by-products, Sesame seeds</b>	Enumeration of <i>Escherichia coli</i>	IS 5887 (Part 1): 1976 (RA 2005) ISO 16649: 2001	≥ 10 cfu/g

**Laboratory** ARBRO Pharmaceuticals Private Limited (Analytical Division), 4/9, Kirti Nagar, Industrial Area, New Delhi  
 Location 1: 4/9, Kirti Nagar, Industrial Area, New Delhi  
 Location 2: 6/13, Kirti Nagar, Industrial Area, New Delhi

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

**Discipline** Biological Testing **Issue Date** 29.02.2016

**Certificate Number** T-0575 **Valid Until** 22.11.2016

**Last Amended on** - **Page** 26 of 59

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Oil seeds and by-products, Sesame seeds	Detection of <i>Escherichia coli</i>	IS 5887 (Part 1): 1976 (RA 2005) ISO 16649: 2001	Present or Absent per g
		Detection of <i>Salmonella</i>	IS 5887 (Part 3): 1999 ISO 6579: 2002	Present or Absent per g
		Detection of <i>Shigella</i>	IS 5887 (Part 7): 1999 ISO 21567: 2004	Present or Absent per g
		Total Plate Count	IS 5402: 2012 ISO 4833: 2003	≥ 10 cfu/g
		Detection of Coliform	IS 5401 (Part 1): 2012 ISO 4832: 2006	Present or Absent per g
		Enumeration of Coliform	IS 5401 (Part 1): 2012 ISO 4832: 2006	≥ 10 cfu/g
		Yeast and mould Count	IS 5403: 1999 ISO 21527: 2008	≥ 10 cfu/g
		Detection of Faecal streptococci	IS 5887 (Part 2): 1976 (RA 2005)	Present or Absent per g
		Enumeration of Faecal Streptococci	IS 5887 (Part 2): 1976 (RA 2005)	≥ 10 cfu/g
		Detection of <i>Staphylococcus aureus</i>	IS 5587 (Part 8): 2002 ISO 6888:1:1999 IS 5887 (Part 2): 1976 (RA 2005) ISO 6888: 3: 2003	Present or Absent per g

**Laboratory** ARBRO Pharmaceuticals Private Limited (Analytical Division), 4/9, Kirti Nagar, Industrial Area, New Delhi  
 Location 1: 4/9, Kirti Nagar, Industrial Area, New Delhi  
 Location 2: 6/13, Kirti Nagar, Industrial Area, New Delhi

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

**Discipline** Biological Testing **Issue Date** 29.02.2016

**Certificate Number** T-0575 **Valid Until** 22.11.2016

**Last Amended on** - **Page** 27 of 59

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Oil seeds and by-products, Sesame seeds	Enumeration of <i>Staphylococcus aureus</i>	IS 5587 (Part 8): 2002 ISO 6888: 1: 1999 ISO 6888: 3: 2003	≥ 10 cfu/g
		Detection of <i>Bacillus cereus</i>	IS 5887 (Part 6): 2002 ISO 7932: 2004	Present or Absent per g
		Enumeration of <i>Bacillus cereus</i>	IS 5887 (Part 6): 2002 ISO 7932: 2004	≥ 10 cfu/g
		Enumeration of Enterobacteriaceae	ISO 21528 (II): 2004 IS 7402: 1993	≥ 10 cfu/g
		Detection of Enterobacteriaceae	ISO 21528 (II): 2004 IS 7402: 1993	Present or Absent per g
		Detection of <i>Vibrio cholera</i> and <i>Vibrio parahaemolyticus</i>	IS 5887 (Part 5): 1976	Present or Absent per 25 g
		Detection of <i>Listeria monocytogenes</i>	IS 14988 (Part 1): 2001 ISO 11290 (Part 1): 2004	Absent/Present per 25g
		Thermophilic spore count (Total Aerobic, H <sub>2</sub> S, Non-H <sub>2</sub> S Anaerobic)	AACC 40-42, 10 <sup>th</sup> Edition	≥ 10 cfu/g
		Mesophilic spore count, anaerobic and aerobic	APL/MIB/SOP-020, Issue No.: 02 Issue Date: 13.09.2014	≥ 10 cfu/g
		Flat sour spores organism	AACC 40-42, 10 <sup>th</sup> Edition	≥ 10 cfu/g
	Detection of <i>Clostridium perfringens</i>	IS 5887 (Part 4): 1999 (RA 2005)	Present or Absent per 25 g	

**Laboratory** ARBRO Pharmaceuticals Private Limited (Analytical Division), 4/9, Kirti Nagar, Industrial Area, New Delhi  
 Location 1: 4/9, Kirti Nagar, Industrial Area, New Delhi  
 Location 2: 6/13, Kirti Nagar, Industrial Area, New Delhi

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

**Discipline** Biological Testing **Issue Date** 29.02.2016

**Certificate Number** T-0575 **Valid Until** 22.11.2016

**Last Amended on** - **Page** 28 of 59

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
15.	Tea			
a.	Tea/Green Tea and Tea product	Enumeration of <i>Escherichia coli</i>	IS 5887 (Part 1): 1976 (RA 2005) ISO 16649: 2001	≥ 10 cfu/g
		Detection of <i>Escherichia coli</i>	IS 5887 (Part 1): 1976 (RA 2005) ISO 16649: 2001	Present or Absent per g
		Detection of <i>Salmonella</i>	IS 5887 (Part 3): 1999 ISO 6579: 2002	Present or Absent per g
		Detection of <i>Shigella</i>	IS 5887 (Part 7): 1999 ISO 21567: 2004	Present or Absent per g
		Total Plate Count	IS 5402: 2012 ISO 4833: 2003	≥ 10 cfu/g
		Detection of Coliform	IS 5401 (Part 1): 2012 ISO 4832: 2006	Present or Absent per g
		Enumeration of Coliform	IS 5401 (Part 1): 2012 ISO 4832: 2006	≥ 10 cfu/g
		Yeast and mould Count	IS 5403: 1999 ISO 21527: 2008	≥ 10 cfu/g
		Detection of Faecal streptococci	IS 5887 (Part 2): 1976 (RA 2005)	Present or Absent per g
		Enumeration of Faecal Streptococci	IS 5887 (Part 2): 1976 (RA 2005)	≥ 10 cfu/g

**Laboratory** ARBRO Pharmaceuticals Private Limited (Analytical Division), 4/9, Kirti Nagar, Industrial Area, New Delhi  
 Location 1: 4/9, Kirti Nagar, Industrial Area, New Delhi  
 Location 2: 6/13, Kirti Nagar, Industrial Area, New Delhi

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

**Discipline** Biological Testing **Issue Date** 29.02.2016

**Certificate Number** T-0575 **Valid Until** 22.11.2016

**Last Amended on** - **Page** 29 of 59

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Tea/Green Tea and Tea product	Detection of <i>Staphylococcus aureus</i>	IS 5587 (Part 8): 2002 ISO 6888: 1: 1999 IS 5887 (Part 2): 1976 (RA 2005) ISO 6888:3:2003	Present or Absent per g
		Enumeration of <i>Staphylococcus aureus</i>	IS 5587 (Part 8): 2002 ISO 6888: 1: 1999 ISO 6888: 3: 2003	≥ 10 cfu/g
		Detection of <i>Bacillus cereus</i>	IS 5887 (Part 6): 2002 ISO 7932: 2004	Present or Absent per g
		Enumeration of <i>Bacillus cereus</i>	IS 5887 (Part 6): 2002 ISO 7932: 2004	≥ 10 cfu/g
		Enumeration of Enterobacteriaceae	ISO 21528 (II): 2004 IS 7402: 1993	≥ 10 cfu/g
		Detection of Enterobacteriaceae	ISO 21528 (II): 2004 IS 7402: 1993	Present or Absent per g
		Detection of <i>Vibrio cholera</i> and <i>Vibrio parahaemolyticus</i>	IS 5887 (Part 5): 1976	Present or Absent per 25 g
		Detection of <i>Listeria monocytogenes</i>	IS 14988 (Part 1): 2001 ISO 11290 Part1: 2004	Present or Absent per 25 g
		Thermophilic spore count (Total Aerobic, H <sub>2</sub> S, Non-H <sub>2</sub> S Anaerobic)	AACC 40-42, 10 <sup>th</sup> Edition	≥ 10 cfu/g

**Laboratory** ARBRO Pharmaceuticals Private Limited (Analytical Division), 4/9, Kirti Nagar, Industrial Area, New Delhi  
 Location 1: 4/9, Kirti Nagar, Industrial Area, New Delhi  
 Location 2: 6/13, Kirti Nagar, Industrial Area, New Delhi

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

**Discipline** Biological Testing **Issue Date** 29.02.2016

**Certificate Number** T-0575 **Valid Until** 22.11.2016

**Last Amended on** - **Page** 30 of 59

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	<b>Tea/Green Tea and Tea product</b>	Mesophilic spore count, anaerobic and aerobic	APL/MIB/SOP-020 Issue No.: 02 Issue Date: 13.09.2014	≥ 10 cfu/g
		Flat sour spores organism	AACC 40-42, 10 <sup>th</sup> Edition	≥ 10 cfu/g
		Detection of <i>Clostridium perfringens</i>	IS 5887 (Part 4): 1999 (RA 2005)	Present or Absent per 25g
<b>16.</b>	<b>Coffee &amp; Cocoa Product</b>	Enumeration of <i>Escherichia coli</i>	IS 5887 (Part 1): 1976 (RA 2005) ISO 16649: 2001	≥ 10 cfu/g
		Detection of <i>Escherichia coli</i>	IS 5887 (Part 1): 1976 (RA 2005) ISO 16649: 2001	Present or Absent per g
		Detection of <i>Salmonella</i>	IS 5887 (Part 3): 1999 ISO 6579: 2002	Present or Absent per g
		Detection of <i>Shigella</i>	IS 5887 (Part 7): 1999 ISO 21567: 2004	Present or Absent per g
		Total Plate Count	IS 5402: 2012 ISO 4833: 2003	≥ 10 cfu/g
		Detection of Coliform	IS 5401 (Part 1): 2012 ISO 4832: 2006	Present or Absent per g
		Enumeration of Coliform	IS 5401 (Part 1): 2012 ISO 4832: 2006	≥ 10 cfu/g

**Laboratory** ARBRO Pharmaceuticals Private Limited (Analytical Division), 4/9, Kirti Nagar, Industrial Area, New Delhi  
 Location 1: 4/9, Kirti Nagar, Industrial Area, New Delhi  
 Location 2: 6/13, Kirti Nagar, Industrial Area, New Delhi

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

**Discipline** Biological Testing **Issue Date** 29.02.2016

**Certificate Number** T-0575 **Valid Until** 22.11.2016

**Last Amended on** - **Page** 31 of 59

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Coffee & Cocoa Product	Yeast and mould Count	IS 5403: 1999 ISO 21527: 2008	≥ 10 cfu/g
		Detection of Faecal streptococci	IS 5887 (Part 2): 1976 (RA 2005)	Present or Absent per g
		Enumeration of Faecal Streptococci	IS 5887 (Part 2): 1976 (RA 2005)	≥ 10 cfu/g
		Detection of <i>Staphylococcus aureus</i>	IS 5587 (Part 8): 2002 ISO 6888:1:1999 IS 5887 (Part 2): 1976 (RA 2005) ISO 6888: 3: 2003	Present or Absent per g
		Enumeration of <i>Staphylococcus aureus</i>	IS 5587 (Part 8): 2002 ISO 6888:1:1999 ISO 6888: 3: 2003	≥ 10 cfu/g
		Detection of <i>Bacillus cereus</i>	IS 5887 (Part 6): 2002 ISO 7932: 2004	Present or Absent per g
		Enumeration of <i>Bacillus cereus</i>	IS 5887 (Part 6): 2002 ISO 7932: 2004	≥ 10 cfu/g
		Enumeration of Enterobacteriaceae	ISO 21528 (II): 2004 IS 7402: 1993	≥ 10 cfu/g
	Detection of Enterobacteriaceae	ISO 21528 (II): 2004 IS 7402: 1993	Present or Absent per g	

**Laboratory** ARBRO Pharmaceuticals Private Limited (Analytical Division), 4/9, Kirti Nagar, Industrial Area, New Delhi  
 Location 1: 4/9, Kirti Nagar, Industrial Area, New Delhi  
 Location 2: 6/13, Kirti Nagar, Industrial Area, New Delhi

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

**Discipline** Biological Testing **Issue Date** 29.02.2016

**Certificate Number** T-0575 **Valid Until** 22.11.2016

**Last Amended on** - **Page** 32 of 59

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	<b>Coffee &amp; Cocoa Product</b>	Detection of <i>Vibrio cholera</i> and <i>Vibrio parahaemolyticus</i>	IS 5887 (Part 5): 1976	Present or Absent per 25 g
		Detection of <i>Listeria monocytogenes</i>	IS 14988 (Part 1): 2001 ISO 11290 (Part 1): 2004	Present or Absent per 25 g
		Thermophilic spore count (Total Aerobic, H <sub>2</sub> S, Non-H <sub>2</sub> S Anaerobic)	AACC 40-42, 10 <sup>th</sup> Edition	≥ 10 cfu/g
		Mesophilic spore count, anaerobic and aerobic	APL/MIB/SOP-020 Issue No.: 02 Issue Date: 13.09.2014	≥ 10 cfu/g
		Flat sour spores organism	AACC 40-42, 10 <sup>th</sup> Edition	≥ 10 cfu/g
		Detection of <i>Clostridium perfringens</i>	IS 5887 (Part 4): 1999 (RA 2005)	Present or Absent per 25 g
17.	<b>Sugar and sugar products</b>	Enumeration of <i>Escherichia coli</i>	IS 5887 (Part 1): 1976 (RA 2005) ISO 16649: 2001	≥ 10 cfu/g
		Detection of <i>Escherichia coli</i>	IS 5887 (Part 1): 1976 (RA 2005) ISO 16649: 2001	Present or Absent per g
		Detection of <i>Salmonella</i>	IS 5887 (Part 3): 1999 ISO 6579: 2002	Present or Absent per g
		Detection of <i>Shigella</i>	IS 5887 (Part 7): 1999 ISO 21567: 2004	Present or Absent per g



**Laboratory** ARBRO Pharmaceuticals Private Limited (Analytical Division), 4/9, Kirti Nagar, Industrial Area, New Delhi  
 Location 1: 4/9, Kirti Nagar, Industrial Area, New Delhi  
 Location 2: 6/13, Kirti Nagar, Industrial Area, New Delhi

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

**Discipline** Biological Testing **Issue Date** 29.02.2016

**Certificate Number** T-0575 **Valid Until** 22.11.2016

**Last Amended on** - **Page** 33 of 59

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Sugar and sugar products	Total Plate Count	IS 5402: 2012 ISO 4833: 2003	≥ 10 cfu/g
		Detection of Coliform	IS 5401 (Part 1): 2012 ISO 4832: 2006	Present or Absent per g
		Enumeration of Coliform	IS 5401 (Part 1): 2012 ISO 4832: 2006	≥ 10 cfu/g
		Yeast and mould Count	IS 5403: 1999 ISO 21527: 2008	≥ 10 cfu/g
		Detection of Faecal streptococci	IS 5887 (Part 2): 1976 (RA 2005)	Present or Absent per g
		Enumeration of Fecal Streptococci	IS 5887 (Part 2): 1976 (RA 2005)	≥ 10 cfu/g
		Detection of <i>Staphylococcus aureus</i>	IS 5587 (Part 8): 2002 ISO 6888:1:1999 IS 5887 (Part 2): 1976 (RA 2005) ISO 6888: 3: 2003	Present or Absent per g
		Enumeration of <i>Staphylococcus aureus</i>	IS 5587 (Part 8): 2002 ISO 6888:1:1999 ISO 6888:3:2003	≥ 10 cfu/g
		Detection of <i>Bacillus cereus</i>	IS 5887 (Part 6): 2002 ISO 7932: 2004	Present or Absent per g

**Laboratory** ARBRO Pharmaceuticals Private Limited (Analytical Division), 4/9, Kirti Nagar, Industrial Area, New Delhi  
 Location 1: 4/9, Kirti Nagar, Industrial Area, New Delhi  
 Location 2: 6/13, Kirti Nagar, Industrial Area, New Delhi

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

**Discipline** Biological Testing **Issue Date** 29.02.2016

**Certificate Number** T-0575 **Valid Until** 22.11.2016

**Last Amended on** - **Page** 34 of 59

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	<b>Sugar and sugar products</b>	Enumeration of <i>Bacillus cereus</i>	IS 5887 (Part 6): 2002 ISO 7932: 2004	≥ 10 cfu/g
		Enumeration of Enterobacteriaceae	ISO 21528 (II): 2004 IS 7402: 1993	≥ 10 cfu/g
		Detection of Enterobacteriaceae	ISO 21528 (II): 2004 IS 7402: 1993	Present or Absent per g
		Detection of <i>Vibrio cholera</i> and <i>Vibrio parahaemolyticus</i>	IS 5887 (Part 5): 1976	Present or Absent per 25 g
		Detection of <i>Listeria monocytogenes</i>	IS 14988 (Part 1): 2001 ISO 11290 Part1: 2004	Present or Absent per 25 g
		Thermophilic spore count (Total Aerobic, H <sub>2</sub> S, Non-H <sub>2</sub> S Anaerobic)	AACC 40-42, 10 <sup>th</sup> Edition	≥ 10 cfu/g
		Mesophilic spore count, anaerobic and aerobic	APL/MIB/SOP-020 Issue No.: 02 Issue Date: 13.09.2014	≥ 10 cfu/g
		Flat sour spores organism	AACC 40-42, 10 <sup>th</sup> Edition	≥ 10 cfu/g
		Detection of <i>Clostridium perfringens</i>	IS 5887 (Part 4): 1999 (RA 2005)	Present or Absent per 25 g
<b>18.</b>	<b>Meat and Meat products</b>	Total Plate Count	IS 5402: 2012 ISO 4833: 2003	≥10 cfu/g
		Yeast and mold	IS 5403: 1999 ISO 21527: 2008	≥ 10 cfu/g

**Laboratory** ARBRO Pharmaceuticals Private Limited (Analytical Division), 4/9, Kirti Nagar, Industrial Area, New Delhi  
 Location 1: 4/9, Kirti Nagar, Industrial Area, New Delhi  
 Location 2: 6/13, Kirti Nagar, Industrial Area, New Delhi

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

**Discipline** Biological Testing **Issue Date** 29.02.2016

**Certificate Number** T-0575 **Valid Until** 22.11.2016

**Last Amended on** - **Page** 35 of 59

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	<b>Meat and Meat products</b>	Enumeration of <i>Escherichia coli</i>	IS 5887 (Part 1): 1976 (RA 2005) ISO 16649: 2001	≥ 10 cfu/g
		Detection of <i>Escherichia coli</i>	IS 5887 (Part 1): 1976 (RA 2005) ISO 16649: 2008	Present or Absent per g
		Enumeration of Coliform	IS 5401 (Part 1): 2012 ISO 4832: 2006	≥ 10 cfu/g
		Detection of Coliform	IS 5401 (Part 1): 2012 ISO 4832: 2006	Present or Absent per g
		Enumeration of <i>Staphylococcus aureus</i>	IS 5587 (Part 8): 2002 ISO 6888: 1: 1999 ISO 6888: 3: 2003	≥ 10 cfu/g
		Detection of <i>Staphylococcus aureus</i>	IS 5587 (Part 8): 2002 ISO 6888: 1: 1999 ISO 6888: 3: 2003	Present or Absent per g
		Detection of <i>Salmonella</i>	IS 5887 (Part 3): 1999 ISO 6579:2002	Present or Absent per 25 g
		Detection of <i>Shigella</i>	IS 5887 (Part 7): 1999 ISO 21567: 2004	Present or Absent per 25 g
		Detection of <i>Listeria Spp./ Listeria monocytogenes</i>	IS 14988 (Part 1): 2001 ISO 11290 (Part I): 2004	Present or Absent per g

**Laboratory** ARBRO Pharmaceuticals Private Limited (Analytical Division), 4/9, Kirti Nagar, Industrial Area, New Delhi  
 Location 1: 4/9, Kirti Nagar, Industrial Area, New Delhi  
 Location 2: 6/13, Kirti Nagar, Industrial Area, New Delhi

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

**Discipline** Biological Testing **Issue Date** 29.02.2016

**Certificate Number** T-0575 **Valid Until** 22.11.2016

**Last Amended on** - **Page** 36 of 59

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	<b>Meat and Meat products</b>	Enumeration of <i>Bacillus cereus</i>	IS 5887 (Part 6): 2002 ISO 7932: 2004	≥ 10 cfu/g
		Detection of <i>Bacillus cereus</i>	IS 5887 (Part 6): 2002 ISO 7932: 2004	Present or Absent per g
		Detection of <i>Vibrio cholerae</i> and <i>Vibrio parahaemolyticus</i>	IS 5887 (Part 5): 1976	Present or Absent per g
		Detection of Faecal streptococci	IS 5887 (Part 2): 1976	Present or Absent per g
		Enumeration of Enterobacteriaceae	ISO 21528 (II): 2004 IS 7402: 1993	≥ 10 cfu/g
		Detection of Enterobacteriaceae	ISO 21528 (II): 2004 IS 7402: 1993	Present or Absent per g
		Incubation test	IS 3044: 1973 FSSAI Manual-14	Qualitative
		<i>Clostridium Perferingens</i>	IS 5887 (Part 4): 1999	Present or Absent per g
		Enumeration of <i>Pseudomonas Spp.</i>	IS 14843: 2000	≥ 10 cfu/g
		Thermophilic spore count (Total Aerobic, H <sub>2</sub> S, Non-H <sub>2</sub> S Anaerobic)	AACC 40-42, 10 <sup>th</sup> Edition	≥ 10 cfu/g
	Mesophilic spore count, anaerobic and aerobic	APL/MIB/SOP-020 Issue No.: 02 Issue Date: 11.01.2012	≥ 10 cfu/g	
	Flat sour organism	AACC 40-42, 10 <sup>th</sup> Edition	≥ 10 cfu/g	

**Laboratory** ARBRO Pharmaceuticals Private Limited (Analytical Division), 4/9, Kirti Nagar, Industrial Area, New Delhi  
 Location 1: 4/9, Kirti Nagar, Industrial Area, New Delhi  
 Location 2: 6/13, Kirti Nagar, Industrial Area, New Delhi

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

**Discipline** Biological Testing **Issue Date** 29.02.2016

**Certificate Number** T-0575 **Valid Until** 22.11.2016

**Last Amended on** - **Page** 37 of 59

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
19.	Poultry and Poultry products	Total Plate Count	IS 5402: 2012 ISO 4833: 2003	≥ 10 cfu/g
		Yeast and mold	IS 5403: 1999 ISO 21527: 2008	≥ 10 cfu/g
		Enumeration of <i>Escherichia coli</i>	IS 5887 (Part 1): 1976 (RA 2005) ISO 16649: 2001	≥ 10 cfu/g
		Detection of <i>Escherichia coli</i>	IS 5887 (Part 1): 1976 (RA 2005) ISO 16649: 2008	Present or Absent per g
		Enumeration of Coliform	IS 5401 (Part 1): 2012 ISO 4832: 2006	≥ 10 cfu/g
		Detection of Coliform	IS 5401 (Part 1): 2012 ISO 4832: 2006	Present or Absent per g
		Enumeration of <i>Staphylococcus aureus</i>	IS 5587 (Part 8): 2002 ISO 6888: 1: 1999 ISO 6888: 3: 2003	≥ 10 cfu/g
		Detection of <i>Staphylococcus aureus</i>	IS 5587 (Part 8): 2002 ISO 6888: 1: 1999 ISO 6888: 3: 2003	Present or Absent per g
	Detection of <i>Salmonella</i>	IS 5887 (Part 3): 1999 ISO 6579: 2002	Present or Absent per 25 g	

**Laboratory** ARBRO Pharmaceuticals Private Limited (Analytical Division), 4/9, Kirti Nagar, Industrial Area, New Delhi  
 Location 1: 4/9, Kirti Nagar, Industrial Area, New Delhi  
 Location 2: 6/13, Kirti Nagar, Industrial Area, New Delhi

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

**Discipline** Biological Testing **Issue Date** 29.02.2016

**Certificate Number** T-0575 **Valid Until** 22.11.2016

**Last Amended on** - **Page** 38 of 59

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	<b>Poultry and Poultry products</b>	Detection of <i>Shigella</i>	IS 5887 (Part 7): 1999 ISO 21567: 2004	Present or Absent per 25 g
		Detection of <i>Listeria Spp./ Listeria monocytogenes</i>	IS 14988 (Part 1): 2001 ISO 11290 (Part 1): 2004	Present or Absent per g
		Enumeration of <i>Bacillus cereus</i>	IS 5887 (Part 6): 2002 ISO 7932: 2004	≥ 10 cfu/g
		Detection of <i>Bacillus cereus</i>	IS 5887 (Part 6): 2002 ISO 7932: 2004	Present or Absent per g
		Detection of <i>Vibrio cholera</i> and <i>Vibrio parahaemolyticus</i>	IS 5887 (Part 5): 1976	Present or Absent per g
		Detection of Faecal streptococci	IS 5887 (Part 2): 1976	Present or Absent per g
		Enumeration of Enterobacteriaceae	ISO 21528 (II): 2004 IS 7402: 1993	≥ 10 cfu/gm
		Detection of Enterobacteriaceae	ISO 21528 (II): 2004 IS 7402: 1993	Present or Absent per g
		Incubation test	IS 3044: 1973 FSSAI Manual-14	Qualitative
		<i>Clostridium Perferingens</i>	IS 5887 (Part 4): 1999	Present or Absent per g
	Enumeration of <i>Pseudomonas Spp.</i>	IS 14843: 2000	≥ 10 cfu/g	

**Laboratory** ARBRO Pharmaceuticals Private Limited (Analytical Division), 4/9, Kirti Nagar, Industrial Area, New Delhi  
 Location 1: 4/9, Kirti Nagar, Industrial Area, New Delhi  
 Location 2: 6/13, Kirti Nagar, Industrial Area, New Delhi

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

**Discipline** Biological Testing **Issue Date** 29.02.2016

**Certificate Number** T-0575 **Valid Until** 22.11.2016

**Last Amended on** - **Page** 39 of 59

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	<b>Poultry and Poultry products</b>	Thermophilic spore count (Total Aerobic, H <sub>2</sub> S, Non-H <sub>2</sub> S Anaerobic)	AACC 40-42, 10 <sup>th</sup> Edition	≥ 10 cfu/g
		Mesophilic spore count, anaerobic and aerobic	APL/MIB/SOP-020 Issue No.: 02 Issue Date: 11.01.2012	≥ 10 cfu/g
		Flat sour organism	AACC 40-42, 10 <sup>th</sup> Edition	≥ 10 cfu/g
<b>20.</b>	<b>Eggs &amp; Egg Products</b>	Total Plate Count	IS 5402: 2012 ISO 4833: 2003	≥ 10 cfu/g
		Yeast and mold Count	IS 5403: 1999 ISO 21527: 2008	≥ 10 cfu/g
		Enumeration of Escherichia coli	IS 5887 (Part 1): 1976 (RA 2005) ISO 16649: 2001	≥ 10 cfu/g
		Detection of Escherichia coli	IS 5887 (Part 1): 1976 (RA 2005) ISO 16649: 2008	Present or Absent per g
		Enumeration of Coliform	IS 5401 (Part 1): 2012 ISO 4832: 2006	≥ 10 cfu/g
		Detection of Coliform	IS 5401 (Part 1): 2012 ISO 4832: 2006	Present or Absent per g

**Laboratory** ARBRO Pharmaceuticals Private Limited (Analytical Division), 4/9, Kirti Nagar, Industrial Area, New Delhi  
 Location 1: 4/9, Kirti Nagar, Industrial Area, New Delhi  
 Location 2: 6/13, Kirti Nagar, Industrial Area, New Delhi

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

**Discipline** Biological Testing **Issue Date** 29.02.2016

**Certificate Number** T-0575 **Valid Until** 22.11.2016

**Last Amended on** - **Page** 40 of 59

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	<b>Eggs &amp; Egg Products</b>	Enumeration of <i>Staphylococcus aureus</i>	IS 5587 (Part 8): 2002 ISO 6888: 1: 1999 ISO 6888: 3: 2003	≥ 10 cfu/g
		Detection of <i>Staphylococcus aureus</i>	IS 5587 (Part 8): 2002 ISO 6888: 1: 1999 ISO 6888: 3: 2003	Present or Absent per g
		Detection of <i>Salmonella</i>	IS 5887 (Part 3): 1999 ISO 6579: 2002	Present or Absent per 25 g
		Detection of <i>Shigella</i>	IS 5887 (Part 4): 1999 ISO 21567: 2004	Present or Absent per 25 g
		Detection of <i>Listeria Spp./ Listeria monocytogenes</i>	IS 14988 (Part 1): 2001 ISO 11290 (Part 1): 2004	Present or Absent per g
		Enumeration of <i>Bacillus cereus</i>	IS 5887 (Part 6): 2002 ISO 7932: 2004	≥ 10 cfu/g
		Detection of <i>Bacillus cereus</i>	IS 5887 (Part 6): 2002 ISO 7932: 2004	Present or Absent per g
		Detection of <i>Vibrio cholera</i> and <i>Vibrio parahaemolyticus</i>	IS 5887 (Part 5): 1976	Present or Absent per g
		Detection of Faecal streptococci	IS 5887 (Part 2): 1976	Present or Absent per g
	Enumeration of Enterobacteriaceae	ISO 21528 (II): 2004 IS 7402: 1993	≥ 10 cfu/gm	

**Deepak Kumar Sharma**  
 Convenor

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 Program Manager



**Laboratory** ARBRO Pharmaceuticals Private Limited (Analytical Division), 4/9, Kirti Nagar, Industrial Area, New Delhi  
 Location 1: 4/9, Kirti Nagar, Industrial Area, New Delhi  
 Location 2: 6/13, Kirti Nagar, Industrial Area, New Delhi

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

**Discipline** Biological Testing **Issue Date** 29.02.2016

**Certificate Number** T-0575 **Valid Until** 22.11.2016

**Last Amended on** - **Page** 41 of 59

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	<b>Eggs &amp; Egg Products</b>	Detection of Enterobacteriaceae	ISO 21528 (II): 2004 IS 7402: 1993	Present or Absent per g
		Incubation test	IS 3044: 1973 FSSAI Manual-14	Passes the test
		<i>Clostridium Perferingens</i>	IS 5887 (Part 4): 1999	Present or Absent per g
		Enumeration of <i>Pseudomonas Spp.</i>	IS 14843: 2000	≥ 10 cfu/g
		Thermophilic spore count (Total Aerobic, H2S, Non-H2S Anaerobic)	AACC 40-42, 10 <sup>th</sup> Edition	≥ 10 cfu/g
		Mesophilic spore count, anaerobic and aerobic	APL/MIB/SOP-020 Issue No.: 02 Issue Date: 11.01.2012	≥ 10 cfu/g
		Flat sour organism	AACC 40-42, 10 <sup>th</sup> Edition	≥ 10 cfu/g
<b>21.</b>	<b>Vegetable and Vegetable products</b>			
<b>a.</b>	<b>Unprocessed/ Processed/ Frozen/ Fresh Vegetables &amp; Dehydrated Veg./ Canned Vegetables, Tomato juice/ tomato ketchup/ tomato sauce, Ketchup/ pulp, Processed Food</b>	Total Plate Count	IS 5402: 2012 ISO 4833: 2003	≥ 10 cfu/g
		Yeast & Mould Count	IS 5403: 1999 ISO 21527: 2008	≥ 10 cfu/g
		Detection of <i>Escherichia coli</i>	IS 5887 (Part 1): 1976 (RA 2005) ISO 16649: 2001	Present or Absent per g
		Enumeration of <i>Escherichia coli</i>	IS 5887 (Part 1): 1976 (RA 2005) ISO 16649: 2008	≥ 10 cfu/g

**Laboratory** ARBRO Pharmaceuticals Private Limited (Analytical Division), 4/9, Kirti Nagar, Industrial Area, New Delhi  
 Location 1: 4/9, Kirti Nagar, Industrial Area, New Delhi  
 Location 2: 6/13, Kirti Nagar, Industrial Area, New Delhi

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

**Discipline** Biological Testing **Issue Date** 29.02.2016

**Certificate Number** T-0575 **Valid Until** 22.11.2016

**Last Amended on** - **Page** 42 of 59

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Unprocessed/ Processed/ Frozen/ Fresh Vegetables & Dehydrated Veg./ Canned Vegetables, Tomato juice/ tomato ketchup/ tomato sauce, Ketchup/ pulp, Processed Food	Enumeration of Coliform	IS 5401 (Part 1): 2012 ISO 4832: 2006	≥ 10 cfu/g
		Enumeration of Coliform (MPN)	IS 5401 (Part 2): 2002	0.3 MPN per g to 110 MPN per g
		Detection of Coliform	IS 5401 (Part 1): 2012 ISO 4832: 2006	Present or Absent per g
		Detection of <i>Staphylococcus aureus</i>	IS 5587 (Part 8): 2002 ISO 6888: 1: 1999 ISO 6888: 3: 2003	Present or Absent per g
		Enumeration of <i>Staphylococcus aureus</i>	IS 5587 (Part 8): 2002 ISO 6888: 1: 1999 ISO 6888: 3: 2003	≥ 10 cfu/g
		Detection of <i>Salmonella</i>	IS 5887 (Part 3): 1999 ISO 6579: 2002	Present or Absent per 25 g
		Detection of <i>Shigella</i>	IS 5887 (Part 7): 1999 ISO 21567: 2004	Present or Absent per 25 g
		Detection of <i>Listeria Spp./ Listeria monocytogenes</i>	IS 14988 (Part 1): 2001 ISO 11290 (Part I): 2004	Present or Absent per 25 g
		Detection of <i>Bacillus cereus</i>	IS 5887 (Part 6): 2002 ISO 7932: 2004	Present or Absent per g

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 Location 2: 6/13, Kirti Nagar, Industrial Area, New Delhi

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

**Discipline** Biological Testing **Issue Date** 29.02.2016

**Certificate Number** T-0575 **Valid Until** 22.11.2016

**Last Amended on** - **Page** 43 of 59

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	<b>Unprocessed/ Processed/ Frozen/ Fresh Vegetables &amp; Dehydrated Veg./ Canned Vegetables, Tomato juice/ tomato ketchup/ tomato sauce, Ketchup/ pulp, Processed Food</b>	Enumeration of <i>Bacillus cereus</i>	IS 5887 (Part 6): 2002 ISO 7932: 2004	≥ 10 cfu/g
		Detection of <i>Vibrio cholerae</i> & <i>Vibrio parahaemolyticus</i>	IS 5887 (Part 5): 1976	Present or Absent per g
		Detection of Faecal streptococci	IS 5887 (Part 2): 1976	Present or Absent per g
		Enumeration of Enterobacteriaceae	ISO 21528 (II): 2004 IS 7402: 1993	≥ 10 cfu/g
		Detection of Enterobacteriaceae	ISO 21528 (II): 2004 IS 7402: 1993	Present or Absent per g
		Thermophilic spore count (Total Aerobic, H <sub>2</sub> S, Non-H <sub>2</sub> S Anaerobic)	AACC 40-42, 10 <sup>th</sup> Edition	≥ 10 cfu/g
		Mesophilic spore count, anaerobic and aerobic	APL/MIB/SOP-020 Issue No.: 02 Issue Date: 13.09.2014	≥ 10 cfu/g
		Flat sour organism	AACC 40-42, 10 <sup>th</sup> Edition	≥ 10 cfu/g
		Incubation Test <i>Clostridium perferingens</i>	IS 2860: 1964 IS 5887 (Part 4): 1999	Qualitative Present or Absent per g

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

**Discipline** Biological Testing **Issue Date** 29.02.2016

**Certificate Number** T-0575 **Valid Until** 22.11.2016

**Last Amended on** - **Page** 44 of 59

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
22.	Miscellaneous item			
a.	Acacia gum food grade, Agar food grade, Alga Spirulina Food Grade, Alginate sodium, Arrowrot	<i>E. Coli</i>	IS 5887 (Part 1): 1976 (RA 2005)	Present or Absent per g
b.	Isabgol powder, Isabgol husk,	Yeast & mould count <i>E. coli</i>	IS 5403: 1999 (RA 2005) IS 5887 (Part 1): 1976 (RA 2005)	≥ 10 cfu/g Present or Absent per g
c.	Gelatin food grade	Total bacterial count <i>E. coli</i> Coliform	IS 5402: 2002 IS 5887 (Part 1):1976 (RA 2005) IS 5401: 2012	≥ 10 cfu/g Present or Absent per g ≥ 10 cfu/g
d.	Food Yeast	Microflora other than yeast Mould count Coliform count Yeast & mould count Coliform count	IS 3839: 1989 IS 5403: 1999 (RA 2005) IS 5401 (Part 1): 2012 IS 5403: 1999 (RA 2005) IS 5401 (Part 1): 2012	≥ 10 cfu/g ≥ 10 cfu/g ≥ 10 cfu/g ≥ 10 cfu/g ≥ 10 cfu/g

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

**Discipline** Biological Testing **Issue Date** 29.02.2016

**Certificate Number** T-0575 **Valid Until** 22.11.2016

**Last Amended on** - **Page** 45 of 59

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
<b>II. IDENTIFICATION/ENUMERATION OF MICROBIAL PATHOGENS BY TEST KITS/RAPID TEST</b>				
<b>1.</b>	<b>Bakery &amp; Confectionery products, Beverages, Canned &amp; Processed Foods, Cereals, Pulses &amp; Cereal products, Eggs and egg products, Fish and sea foods, Fruit and fruit products, Spices and Condiments, Infant foods, Meat and meat products, Milk and dairy products, Nuts and nut products, Snacks and instant mixes, Tea, Vegetables &amp; vegetable products, Ready to eat (Cooked / Processed/ Uncooked) and Proprietary foods</b>	Total plate count	AOAC Approved Petri film, APL/MIB/STP-022 Issue No.: 01 Issue Date: 09.09.2014	≥ 10 cfu/g ≥ 1 cfu/mL
		Yeast and mold count	AOAC approved Petri film, APL/MIB/STP-021 Issue No.: 01 Issue Date: 09.09.2014	≥ 10 cfu/g ≥ 1 cfu/mL
		Enumeration of <i>Escherichia coli</i>	AOAC approved Petri film, APL/MIB/STP-024 Issue No.: 01 Issue Date: 13.09.2014	≥ 10 cfu/g ≥ 1 cfu/mL
		Enumeration of Coliform	AOAC approved Rapid kit/Petri film, APL/MIB/STP-023 Issue No.: 01 Issue Date: 09.09.2014	≥ 10 cfu/g ≥ 1 cfu/mL
		Enumeration of <i>Staphylococcus aureus</i>	AOAC approved Rapid kit/Petri film, APL/MIB/STP-025 Issue No.: 01 Issue Date: 13.09.2014	≥ 10 cfu/g ≥ 1 cfu/mL
	Detection of <i>Listeria Spp.</i>	AOAC approved Rapid kit, APL/MIB/STP-029 Issue No.: 01 Issue Date: 13.09.2014	Present or Absent per g or mL	
	Enumeration of Enterobacteriaceae	AOAC approved Petri film, APL/MIB/STP-026	≥ 10 cfu/g ≥ 1 cfu/mL	

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 Location 2: 6/13, Kirti Nagar, Industrial Area, New Delhi

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

**Discipline** Biological Testing **Issue Date** 29.02.2016

**Certificate Number** T-0575 **Valid Until** 22.11.2016

**Last Amended on** - **Page** 46 of 59

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	<b>Bakery &amp; Confectionery products, Beverages, Canned &amp; Processed Foods, Cereals, Pulses &amp; Cereal products, Eggs and egg products, Fish and sea foods, Fruit and fruit products, Spices and Condiments, Infant foods, Meat and meat products, Milk and dairy products, Nuts and nut products, Snacks and instant mixes, Tea, Vegetables &amp; vegetable products, Ready to eat (Cooked / Processed/ Uncooked) and Proprietary foods</b>	Detection of <i>Salmonella</i>	Issue No.: 01 Issue Date: 13.09.2014 AOAC approved Rapid Kit, APL/MIB/STP-027 Issue No.: 01 Issue Date: 13.09.2014	Present or Absent per g or mL
		Detection of <i>E.coli</i> O 157	AOAC approved Rapid kit, APL/MIB/STP-030 Issue No.: 01 Issue Date: 13.09.2014	Present or Absent per g or mL
		Detection of <i>Campylobacter</i>	AOAC approved Rapid kit, APL/MIB/STP-028 Issue No.: 01 Issue Date: 13.09.2014	Present or Absent per g or mL

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

**Discipline** Biological Testing **Issue Date** 29.02.2016

**Certificate Number** T-0575 **Valid Until** 22.11.2016

**Last Amended on** - **Page** 47 of 59

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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### III. DRUGS AND PHARMACEUTICALS

#### 1. Preservative efficacy

a.	<b>Finished pharmaceutical preparation, Oral preparation, Multidose injection, eye drops, personal care product</b>	Preservative efficacy	IP-2014, 2.2.2, Page No.:27, USP-2014, Vol. 37, Page No.: 52 BP-2013, Vol. V, A 470, APP.XVIC	Qualitative (Complies/ Does not comply)
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#### 2. Surgical dressing and Medical accessories

a.	<b>Medical devices, IV Cannula, Catheter, disposable syringes, In vitro diagnostic device</b>	Bio burden	ISO 11737-1:USP	≥ 10 cfu/ device
Sterility		ISO 11737-2:USP	Qualitative (Complies/ Does not comply)	
Bacterial Endotoxin		USP-2014, Vol. 37, Page No. 92 BP-2013, Appendix XIV-C, Page No.: A384 IP 2014, 2.2.3, Page No. 28, Vol. I	Qualitative (Complies/ Does not comply)	

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

**Discipline** Biological Testing **Issue Date** 29.02.2016

**Certificate Number** T-0575 **Valid Until** 22.11.2016

**Last Amended on** - **Page** 48 of 59

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
3.	Microbial limit test			
a.	<b>Finished Pharmaceutical Preparation, Tablet, Capsule, Dry Syrup, Liquid Syrup, Sachet, Bolus, inhalation preparation, Cream, Ointment, Raw material for pharmaceutical preparation. Purified water</b>	<i>Staphylococcus aureus</i>	IP 2014 (Vol. I), 2.2.9, Page No.: 38 USP 2014 <61>, <62>, Page No.: 57-62 BP 2013, Appendix XVIB, Page No.: A455	Present or Absent per mL or g
		<i>E coli</i>	IP 2014 (Vol. I), 2.2.9, Page No.: 38 USP 2014 <61>, <62>, Page No.: 57-62 BP 2013, Appendix XVIB, Page No.: A455	Present or Absent per mL or g
		<i>Pseudomonas aeruginosa</i>	IP 2014 (Vol. I), 2.2.9, Page No.: 38 USP 2014 <61>, <62>, Page No.: 57-62 BP 2013, Appendix XVIB, Page No.: A455	Present or Absent per mL or g
		<i>Salmonella</i>	IP 2014 (Vol. I), 2.2.9, Page No.: 38 USP 2014 <61>, <62>, Page No.: 57-62 BP 2013, Appendix XVIB, Page No.: A455	Present or Absent per mL or g



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

**Discipline** Biological Testing **Issue Date** 29.02.2016

**Certificate Number** T-0575 **Valid Until** 22.11.2016

**Last Amended on** - **Page** 49 of 59

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	<b>Finished Pharmaceutical Preparation, Tablet, Capsule, Dry Syrup, Liquid Syrup, Sachet, Bolus, inhalation preparation, Cream, Ointment, Raw material for pharmaceutical preparation. Purified water</b>	<i>Shigella</i>	IP 2014 (Vol. I), 2.2.9, Page No.: 38 USP 2014 <61>, <62>, Page No.: 57-62 BP 2013, Appendix XVIB, Page No.: A455	Present or Absent per mL or g
		<i>Clostridia</i>	IP 2014 (Vol. I), 2.2.9, Page No.: 38 USP 2014 <61>, <62>, Page No.: 57-62 BP 2013, Appendix XVIB, Page No.: A455	Present or Absent per mL or g
		Total Viable Aerobic count	IP 2014 (Vol. I), 2.2.9, Page No.: 38 USP 2014 <61>, <62>, Page No.: 57-62 BP 2013, Appendix XVIB, Page No.: A455	10 cfu per g or mL to 10 <sup>5</sup> cfu per g or mL
		Total yeast and mold count	IP 2014 (Vol. I), 2.2.9, Page No.: 38 USP 2014 <61>, <62>, Page No.: 57-62 BP 2013, Appendix XVIB, Page No.: A455	10 cfu per g or mL to 10 <sup>5</sup> cfu per g or mL

**Laboratory** ARBRO Pharmaceuticals Private Limited (Analytical Division), 4/9, Kirti Nagar, Industrial Area, New Delhi  
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**Accreditation Standard** ISO/IEC 17025: 2005

**Discipline** Biological Testing **Issue Date** 29.02.2016

**Certificate Number** T-0575 **Valid Until** 22.11.2016

**Last Amended on** - **Page** 50 of 59

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
4.	<b>Sterility tests</b>			
a.	Pharmaceutical sterile preparation , Liquid injection, Dry injection, Ophthalmic Preparations, Raw material, Water for injection	Sterility	IP 2014, 2.2.11, Page No.: 59, Vol. I USP 2014, <71> , Page No.: 71 BP 2013, Appendix XVI A, Page No.: A452	Qualitative (Complies/ Does not comply)
5.	<b>Endotoxins</b>			
a.	Pharmaceutical sterile preparation, Liquid injection, Dry injection, Raw material, Water for injection	Bacterial endotoxin (by gel clot method)	IP 2014, 2.2.3, Page No.: 28, Vol. I BP 2013, Appendix XIVC, Page No.: A384 USP 2014, <85>, Page No.: 92	Qualitative (Complies/ Does not comply)
6.	<b>Antibiotics (Finished product)</b>			
a.	Amikacin Sulphate injection IP	Assay	IP 2014, Page No. 50 (2.10)	10 mg/mL to 550 mg/mL
b.	Erythromycin Stearate tablet IP	Assay	IP 2014, Page No. 50 (2.10)	10 mg/mL to 550 mg per Tablet
c.	Gentamycin Sulphate injection IP	Assay	IP 2014, Page No. 50 (2.10)	10 mg/mL to 40 mg/mL

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

**Discipline** Biological Testing **Issue Date** 29.02.2016

**Certificate Number** T-0575 **Valid Until** 22.11.2016

**Last Amended on** - **Page** 51 of 59

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
7.	Ayurvedic Drugs			
a.	Ayurvedic Herbal Tablet, Capsule & Dry Syrup, Syrup	<i>Staphylococcus aureus</i>	API-2007, Part-2 <sup>nd</sup> , Vol. - I	Present or Absent per g or mL
		<i>Salmonella spp.</i>	API-2007, Part-2 <sup>nd</sup> , Vol. - I	Present or Absent per g or mL
		<i>Pseudomonas aeruginosa</i>	API-2007, Part-2 <sup>nd</sup> , Vol. - I	Present or Absent per g or mL
		<i>Escherichia coli</i>	API-2007, Part-2 <sup>nd</sup> , Vol. - I	Present or Absent per g or mL
		Total microbial plate count (TPC)	API-2007, Part-2 <sup>nd</sup> , Vol. - I	≥ 10 cfu/g or mL
		Total yeast & mould count	API-2007, Part-2 <sup>nd</sup> , Vol. - I	≥ 10 cfu/g or mL

#### IV. ENVIRONMENT AND POLLUTION

##### 1. Bio burden Estimation of Classified and non-classified area/Air/Surface/Solid waste

a.	Swab samples of equipments, food handlers, linen, cooking platforms, cooking accessories, workers	Bacterial count	APL/MIB/SOP-045 Issue No.: 02 Issue Date: 10.11.2012	10 cfu/ 25cm <sup>2</sup> to 10 <sup>5</sup> cfu/ 25cm <sup>2</sup>
		Yeast & Mould count	APL/MIB/SOP-045 Issue No.: 02 Issue Date: 10.11.2012	10 cfu/ 25cm <sup>2</sup> to 10 <sup>5</sup> cfu/ 25cm <sup>2</sup>
		Coliform count	APL/MIB/SOP-045 Issue No.: 02 Issue Date: 10.11.2012	10 cfu/ 25cm <sup>2</sup> to 10 <sup>5</sup> cfu/ 25cm <sup>2</sup>
		<i>E.coli</i>	APL/MIB/SOP-045 Issue No.: 02 Issue Date: 10.11.2012	10 cfu/ 25cm <sup>2</sup> to 10 <sup>5</sup> cfu/ 25cm <sup>2</sup>

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

**Discipline** Biological Testing **Issue Date** 29.02.2016

**Certificate Number** T-0575 **Valid Until** 22.11.2016

**Last Amended on** - **Page** 52 of 59

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Swab samples of equipments, food handlers, linen, cooking platforms, cooking accessories, workers	<i>S. aureus</i> count	APL/MIB/SOP-045 Issue No.: 02 Issue Date: 10.11.2012	10 cfu/ 25cm <sup>2</sup> to 10 <sup>5</sup> cfu/ 25cm <sup>2</sup>
b.	Air in factory locations, units, Storehouses, Dairies, Kitchens, Any food handling locations	Bacterial count	APL/MIB/SOP-046 Issue No.: 01 Issue Date: 21.09.2012	1 cfu to 300 cfu per plate per duration of exposure
		Yeast & mould count	APL/MIB/SOP-046 Issue No.: 01 Issue Date: 21.09.2012	1 cfu to 300 cfu per plate per duration of exposure
		Coliform count	APL/MIB/SOP-046 Issue No.: 01 Issue Date: 21.09.2012	1 cfu to 300 cfu per plate per duration of exposure
		<i>E.coli</i>	APL/MIB/SOP-046 Issue No.: 01 Issue Date: 21.09.2012	1 cfu to 300 cfu per plate per duration of exposure
		<i>S. aureus</i> count	APL/MIB/SOP-046 Issue No.: 01 Issue Date: 21.09.2012	1 cfu to 300 cfu per plate per duration of exposure
c.	Dust in factory locations & Production Area, Units, Hotels, Any food handling locations	Bacterial count	APL/MIB/SOP-046 Issue No.: 01 Issue Date: 21.09.2012	≥10 cfu/g
		Yeast & mould count	APL/MIB/SOP-046 Issue No.: 01 Issue Date: 21.09.2012	≥10 cfu/g

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

**Discipline** Biological Testing **Issue Date** 29.02.2016

**Certificate Number** T-0575 **Valid Until** 22.11.2016

**Last Amended on** - **Page** 53 of 59

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	<b>Dust in factory locations &amp; Production Area, Units, Hotels, Any food handling locations</b>	Coliform count	APL/MIB/SOP-046 Issue No.: 01 Issue Date: 21.09.2012	≥10 cfu/g
		<i>E.coli</i> counts	APL/MIB/SOP-046 Issue No.: 01 Issue Date: 21.09.2012	≥10 cfu/g
		<i>S. aureus</i> count	APL/MIB/SOP-046 Issue No.: 01 Issue Date: 21.09.2012	Present or Absent per g
		Detection of <i>Salmonella spp.</i>	APL/MIB/SOP-046 Issue No.: 01 Issue Date: 21.09.2012	Present or Absent per g or 25 g
		<i>Shigella</i>	IS 5887 (Part 7): 1999 (RA 2005)	Present or Absent per g or 25 g
<b>V.</b>	<b>WATER</b>			
<b>1.</b>	<b>Waste Water/ Sewage Water/ Etp (In Let/ Out Let)/ Stp (In Let/ Out Let)/ Cooling Tower Water/ Farm Water (Irrigation Water)/ Pond Water/ River Water And Other Types Of Polluted Water</b>	Aerobic microbial count/ Standard Plate count/ Total plate count/ Heterotrophic plate count	APHA (21 <sup>st</sup> Edition) 9215 ISO 4833: 2003	> 1 cfu/mL
		Coliform/ Total Coliform	APHA (21 <sup>st</sup> Edition) 9221 B	1.8 MPN per 100 mL to 1600 MPN per 100 mL
		Coliform (MFT)	APHA (21 <sup>st</sup> Edition) 9222 B	1 cfu to 200 cfu per volume filtered
		Faecal Coliform (MFT)	APHA (21 <sup>st</sup> Edition) 9222 D IS 1622: 1981 (RA 2003)	1 cfu to 200 cfu per volume filtered

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

**Discipline** Biological Testing **Issue Date** 29.02.2016

**Certificate Number** T-0575 **Valid Until** 22.11.2016

**Last Amended on** - **Page** 54 of 59

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Waste Water/ Sewage Water/ Etp (In Let/ Out Let)/ Stp (In Let/ Out Let)/ Cooling Tower Water/ Farm Water (Irrigation Water)/ Pond Water/ River Water And Other Types Of Polluted Water	<i>E. coli</i>	APHA (21 <sup>st</sup> Edition) 9221 F & G	1.8 MPN per 100 mL to 1600 MPN per 100 mL
		<i>E. coli</i> (MFT)	APHA (21 <sup>st</sup> Edition) 9222 IS 15185: 2002	1 cfu to 200 cfu per volume filtered
		<i>Legionella spp.</i>	APHA (21 <sup>st</sup> Edition) 9260 J IS 11731: 1998	Present or Absent per mL of the sample filtered
<b>2.</b>	<b>Drinking Water</b>			
<b>a.</b>	<b>UV based water filters/water purifier filter</b>	Microbiological test for UV water purifier (Percent disinfection)	IS 14724: 1999	≥ 1 cfu per 100mL
<b>b.</b>	<b>Drinking Water</b>	Detection of MS2 bacteriophage (Virus)	IS 10500: 1991 USEPA 1602	Present or Absent per 100 mL
<b>c.</b>	<b>Drinking water/Ice water</b>	Coliform <i>E.coli</i>	IS 1622: 1981 (Amend 1-4) IS 1622: 1981 (Amend 1-4)	≥ 1 MPN per 100 mL Present or Absent per mL
<b>3.</b>	<b>Packaged Drinking Water</b>			
<b>a.</b>	<b>Packaged Drinking Water (Other than Packaged Natural Mineral Water)</b>	Total viable colony count At 37°C for 24 hours At 22°C for 72 hours Yeast & Mould Count	IS 5402: 2002 IS 5402: 2002 IS 5403: 1999 (RA 2005)	≥ 1 cfu/mL ≥ 1 cfu/mL Present or Absent per 250 mL

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

**Discipline** Biological Testing **Issue Date** 29.02.2016

**Certificate Number** T-0575 **Valid Until** 22.11.2016

**Last Amended on** - **Page** 55 of 59

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	<b>Packaged Drinking Water (Other than Packaged Natural Mineral Water)</b>	<i>E.coli</i>	IS 5887 (Part 1): 1976	Present or Absent per 250 mL
		Coliform	IS 5401: 2012	Present or Absent per 250 mL
		<i>Faecal streptococcus</i>	IS 15186: 2002	Present or Absent per 250 mL
		<i>Staphylococcus aureus</i>	IS 5887 (Part 2): 1976 (RA 2005)	Present or Absent per 250 mL
		Sulphite reducing anaerobes	IS 13428 (Annex C): 2011	Present or Absent per 50 mL
		<i>Pseudomonas aeruginosa</i>	IS 13428 (Annex D): 2011	Present or Absent per 250 mL
		<i>Salmonella spp.</i>	IS 15187: 2002	Present or Absent per 250 mL
		<i>Shigella spp.</i>	IS 5887 (Part 7): 1999 (RA 2005)	Present or Absent per 250 mL
		<i>Vibrio cholera</i>	IS 5887 (Part 5): 1976 (RA 2005)	Present or Absent per 250 mL
	<i>Vibrio parahaemolyticus</i>	IS 5887 (Part 5): 1976 (RA 2005)	Present or Absent per 250 mL	
<b>4. Packaged Natural Mineral Water</b>		<i>E.coli</i>	IS 5887 (Part 1): 1976 (RA 2005)	Present or Absent per 250 mL
		Coliform	IS 5401 (Part 1 & 2): 2012	Present or Absent per 250 mL
		<i>Faecal streptococci</i>	IS 15186: 2002	Present or Absent per 250 mL
		Sulphite reducing anaerobes	IS 13428 (Annex C): 2011 Amend - 1-4	Present or Absent per 50 mL

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

**Discipline** Biological Testing **Issue Date** 29.02.2016

**Certificate Number** T-0575 **Valid Until** 22.11.2016

**Last Amended on** - **Page** 56 of 59

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	<b>Packaged Natural Mineral Water</b>	<i>Pseudomonas aeruginosa</i>	IS 13428 (Annex C): 2011 Amend - 1-4	Present or Absent per 250 mL
		<i>Staphylococcus aureus</i>	IS 5887 (Part 2): 1976 (RA 2005)	Present or Absent per 250 mL
		Yeast & mold Count	IS 5403: 1999 (RA 2005)	Present or Absent per 250 mL
		<i>Salmonella spp.</i>	IS 15187: 2002	Present or Absent per 250 mL
		<i>Shigella spp.</i>	IS 5887 (Part 7): 1999 (RA 2005)	Present or Absent per 250 mL
		<i>Vibrio Cholera</i>	IS 5887 (Part 5): 1976 (RA 2005)	Present or Absent per 250 mL
		<i>V parahaemolyticus</i>	IS 5887 (Part 5): 1976 (RA 2005)	Present or Absent per 250 mL
5.	<b>Water for Processed Food Industry</b>	Coliform bacteria, MPN Index per 100 mL	IS 1622: 1981 (RA 2003)	1 MPN per 100 mL to 1600 MPN per 100 mL
6.	<b>Quality Tolerance for Water for Processed Food Industry</b>	Standard plate count	IS 1622: 1981 (RA 2003)	≥1 cfu/mL
		Proteolytic and lipolytic organism, combined count/mL	IS 4251: 2004 (RA 1992)	≥1 cfu/mL
		Thermophilic bacteria count	IS 4251: 2004 (Appendix B) Amd. 1-2	≥1 cfu/mL
		Slime forming bacteria	IS 1622: 1981 Amd. 2003(1-4)	Present or Absent
		<i>E.coli</i>	IS 5887 (Part 1): 1976 (RA 2005)	Present or Absent per mL



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**Certificate Number** T-0575 **Valid Until** 22.11.2016

**Last Amended on** - **Page** 57 of 59

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	<b>Quality Tolerance for Water for Processed Food Industry</b>	Coliform count	IS 5401 (Part 1): 2012	≥1 cfu/mL
		Yeast & mould count	IS 5403: 1999 (RA 2005)	≥1 cfu/mL
		<i>E.coli</i>	IS 5887 (Part 1): 1976 (RA 2005)	Present or Absent per mL
<b>7.</b>	<b>Water for Swimming Pool and Spas/ Construction/Industrial/Ground/Surface water</b>			
<b>a.</b>	<b>Ice cubes, potable water, Raw water, Waste water/ETP (Inlet/Outlet)/ STP (Inlet/outlet)/ Cooling tower water/ Farm water/Pond water/ River Water/ River Water/ Other water/ swimming pool/ Recreational water</b>	Bacterial count, aerobic microbial count/standard plate count/Total plate count	IS 5402: 2002 IS 1622: 1981 Amd. 1-4	≥1 cfu/mL
		Coliform	IS 5401 (Part 1): 2012 IS 5401 (Part 2): 2012	≥1 cfu/mL 1 MPN per 100 mL to 1600 MPN per 100 mL
			IS 1622: 1981 Amd. 1-4	2 MPN per 100 mL to 1600 MPN per 100 mL
		Coliform (MFT)	IS 5401 (Part 1): 2012	Present or Absent per volume filtered
		<i>E.coli</i>	IS 5401 (Part 1): 2012 IS 5401 (Part 2): 2012	≥1 cfu/mL 1 MPN per 100 mL to 1600 MPN per 100 mL
			IS 1622: 1981 Amd. 1-4	2 MPN per 100 mL to 1600 MPN per 100 mL
		<i>E.coli</i> (MFT)	IS 5887 (Part 1)	Present or Absent per volume filtered

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

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**Certificate Number** T-0575 **Valid Until** 22.11.2016

**Last Amended on** - **Page** 58 of 59

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<b>VI. COSMETICS AND ESSENTIAL OILS</b>				
1.	Cosmetics & Essential Oils, Skin Creams and Lotions, Shaving Creams, Shaving Gel, Hair Oil, Tooth Paste	Total Viable count	IS 14648: 2011	≥10 cfu/g
		Gram negative pathogen	IS 14648: 2011	Present or Absent per g
		Preservative efficacy test	IP/USP/BP	Qualitative (Complies/ Does not comply)
<b>VII. NUTRACEUTICALS &amp; FUNCTIONAL FOODS</b>				
1.	Yogurts, Dahi, Ice-cream	Enumeration of <i>Lactic acid bacillus</i>	IS 12899: 1989 APL/MIB/STP-008 Issue No.: 03 Issue Date: 07.11.2013	≥ 10 cfu/g
		<i>Bifidobacterium spp.</i>	APL/MIB/STP-008 Issue No.: 03 Issue Date: 07.11.2013	≥ 10 cfu/g
<b>VIII . BIOLOGICAL TESTS ON OTHER MISCELLANEOUS TEST ITEMS</b>				
1.	Soap and Detergents	Antimicrobial activity	IS 11479 (Part 1): 2001 (Annex A)	Present or Absent
<b>IX. BIOCIDES</b>				
1.	<b>Disinfectants</b>			
a.	Disinfectant fluid (Phenyl) and De-Odorizing-cum Disinfectant fluids	RWC	IS 1061: 1997	1 to 30
		SA	IS 1061: 1997	1 to 20
		RWC	IS 10758: 1983	1 to 20
		SA		1 to 10

**Deepak Kumar Sharma**  
 Convenor

**N. Venkateswaran**  
 Program Manager

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**Certificate Number** T-0575 **Valid Until** 22.11.2016

**Last Amended on** - **Page** 59 of 59

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<b>X. MOLECULAR ANALYSIS</b>				
<b>1. GMO Analysis</b>				
a.	Corn starch, Cashew nut, Cotton seed, Ground nut, Guar churi, Lecithin, Maize , maize grit, Millet, Rice, Rape seed, Sesame, Soy grit, Soy bean seed, Soyabean extraction meal, Tea, Wheat	Qualitative Real Time PCR test for GMO Detection by 35S and NOS	APL/MBI/STP-001 Issue No.: 03 Issue Date: 16.07.2013	≥ 0.01%
b.	Honey	Qualitative PCR test for detection of GMO by 35S and NOS	APL/MBI/STP-011 Issue No.: 02 Issue Date: 01.02.2013	≥ 0.1%
c.	Raw cotton fibers (cotton lint)	Qualitative PCR test for detection of GMO by 35S and NOS	APL/MBI/STP-012 Issue No.: 02 Issue Date: 16.05.2013	≥ 0.1%

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**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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