

Laboratory	Femo Labs Private Limited, No. C-19, Industrial Estate, Mogappair West, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Biological Testing	Issue Date	14.11.2014
Certificate Number	T-3196	Valid Until	13.11.2016
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I. FOOD & AGRICULTURAL PRODUCTS				
1. Beverages				
a.	Non-Alcoholic Carbonated beverages	Total plate count	IS 5402: 2012 USFDA (BAM) 8 th Edition 2001 Chapter 3	Min: 1cfu/ml
		Coliform count	IS 5401 (Part 1): 2012 USFDA (BAM) 8 th Edition 2002 Chapter 4	Min: 1cfu/ml
		Yeast & Mould count	IS 5403: 1999 (RA 2005) USFDA (BAM) 8 th Edition 2001 Chapter 18	Min: 1cfu/ml
2. Fish & Sea Foods				
a.	Fish	Total bacterial count	IS 5402: 2012 USFDA (BAM) 8 th Edition 2001 Chapter 3	Min: 10cfu/g
		Coliform Colony count technique	IS 5401 (Part 1): 2012 USFDA (BAM) 8 th Edition 2002 Chapter 4	Min: 10cfu/g
		MPN technique	IS 5401 (Part 2): 2012 USFDA (BAM) 8 th Edition 2002 Chapter 4	0.3 MPN/g to 110 MPN/g 3 MPN/g to 1100 MPN/g

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	Fish	Yeast & Mould count	IS 5403: 1999 (RA 2005) USFDA (BAM) 8 th Edition 2001 Chapter 18	Min: 10cfu/g
3.	Cereals, Pulses & Cereal Products			
a.	Wheat flour, Cereals	Total bacterial count	IS 5402: 2012 USFDA (BAM) 8 th Edition 2001 Chapter 3	Min: 10cfu/g
		Coliform Colony count technique	IS 5401 (Part 1): 2012 USFDA (BAM) 8 th Edition 2002 Chapter 4	Min: 10cfu/g
		MPN technique	IS 5401 (Part 2): 2012 USFDA (BAM) 8 th Edition 2002 Chapter 4	0.3 MPN/g to 110 MPN/g 3 MPN/g to 1100 MPN/g
		Yeast & Mould count	IS 5403: 1999 (RA 2005) USFDA (BAM) 8 th Edition 2001 Chapter 18	Min: 10cfu/g
4.	Milk & Dairy products			
a.	Ice cream	Standard plate count	IS 2802: 1964 (RA 2000) USFDA (BAM) 8 th Edition 2001 Chapter 3	Min: 10cfu/g

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	Ice cream	Coliform count	IS 2802: 1964 (RA 2000) USFDA (BAM) 8 th Edition 2002 Chapter 4	Min: 10cfu/g
b.	Milk powder	Bacterial count	IS 5402: 2012 USFDA (BAM) 8 th Edition 2001 Chapter 3	Min: 10cfu/g
		Coliform count	IS 5401 (Part 1): 2012 USFDA (BAM) 8 th Edition 2002 Chapter 4	Min: 10cfu/g
		Yeast & Mould count	USFDA (BAM) 8 th Edition 2001 Chapter 18	Min: 10cfu/g
c.	Milk	Total Plate count	IS 1479 (Part 3): 1977 (RA 2003) USFDA (BAM) 8 th Edition 2001 Chapter 3	Min: 1cfu/ml
		Coliform bacteria	IS 5401 (Part 1): 2012 USFDA (BAM) 8 th Edition 2002 Chapter 4	Min: 1cfu/ml
		Yeast & Mould count	IS 5403: 1999 (RA 2005) USFDA (BAM) 8 th Edition 2001 Chapter 18	Min: 1cfu/ml

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5.	Snacks & Instant mixes			
a.	Ready to eat extruded snacks & food	Total bacterial count	IS 5402-2012 USFDA (BAM) 8 th Edition 2001 Chapter 3	Min: 10cfu/g
	Ready to eat extruded snacks & food	Coliform count	IS 5401 (Part 1): 2012 USFDA (BAM) 8 th Edition 2002 Chapter 4	Min: 10cfu/g
		Yeast & Mould count	IS 5403: 1999 (RA 2005) USFDA (BAM) 8 th Edition 2001 Chapter 18	Min: 1cfu/g
6.	Bakery & Confectionery products			
a.	Biscuits	Total plate count	IS 5402: 2012 USFDA (BAM) 8 th Edition 2001 Chapter 3	Min: 10cfu/g
		Yeast & Mould count	IS 5403: 1999 (RA 2005) USFDA (BAM) 8 th Edition 2001 Chapter 18	Min: 10cfu/g
		Coliform count	IS 5401 (Part 1): 2012 USFDA (BAM) 8 th Edition 2002 Chapter 4	Min: 10cfu/g

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II. WATER				
1.	Drinking Water	Coliform	IS 1622: 1981 (RA 2003)	2 MPN/100mL to 1600 MPN/100mL
		Faecal Coliform	IS 1622: 1981 (RA 2003)	2 MPN/100mL to 1600 MPN/100mL
		E. coli	IS 1622: 1981 (RA 2003))	2 MPN/100mL to 1600 MPN/100mL
2.	Borewell Water	Standard plate count	IS 1622: 1981 (RA 2003)	Min: 1cfu/mL
		Coliform	IS 1622: 1981 (RA 2003))	2 MPN/100mL to 1600 MPN/100mL
		Faecal Coliform	IS 1622: 1981 (RA 2003)	2 MPN/100mL to 1600 MPN/100mL
		E. coli	IS 1622: 1981 (RA 2003)	2 MPN/100mL to 1600 MPN/100mL
3.	Swimming Pool Water	Standard plate count	IS 3328: 1993 (RA 2003)	Min: 1cfu/mL
		Coliform bacteria	IS 1622: 1981 (RA 2003)	2 MPN/100mL to 1600 MPN/100mL

Deepak Kumar Sharma
Convenor

N. Venkateswaran
Program Manager

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4.	Water for Processed Food Industry	Standard plate count	IS 1622: 1981 (RA 2003)	Min: 1cfu/mL
		Coliform	IS 1622: 1981 (RA 2003)	Present or Absent/100mL
		Proteolytic and Lipolytic organisms	IS 4251: 1967 (RA 1992)	Min: 1cfu/mL
5.	Packaged Drinking Water	E. coli (Thermo tolerant Bacteria)	IS 15185: 2002	Present or Absent/250ml
		Coliform	IS 15185: 2002	Present or Absent/250mL
		Total viable colony count	IS 5402: 2012	Min: 1cfu/mL
		Yeast & Mould	IS 5403: 1999 (RA 2005)	Present or Absent/250mL
6.	Packaged Natural Mineral Water	E. coli (Thermo tolerant bacteria)	IS 15185: 2002	Present or Absent/250mL
		Coliform	IS 15185: 2002	Present or Absent/250mL
		Yeast & Mould	IS 5403: 1999 (RA 2005)	Present or Absent/250mL
III. POLLUTION AND ENVIRONMENT				
1.	Swab Test	Bacterial count	APHA 4 th Edition 2001 Chapter 3-60	Min: 10cfu/surface area
		Coliform	APHA 4 th Edition 2001 Chapter 3	Min: 10cfu/surface area

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2.	Settle plate method	Bacterial count	APHA 4 th Edition 2001 Chapter 3	Min: 1cfu/plate
		Coliform count	APHA 4 th Edition 2001 Chapter 3	Min: 1cfu/plate
		Yeast & Mould count	APHA 4 th Edition 2001 Chapter 3	Min: 1cfu/plate
IV. RESITANCE TO MICROBIAL ATTACK				
1.	Textiles and Fabrics	Antifungal activity	AATCC 30-2004	Qualitative (Pass/Fail)

-X-X-X-X-X-X-X-X-X-X-X-X-