

Laboratory	C.E.P.C. Laboratory & Technical Division (The Cashew Export Promotion Council of India), Cashew Bhavan, Mundakkal, Kollam, Kerala		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Biological Testing	Issue Date	02.01.2015
Certificate Number	T-0324	Valid Until	01.01.2017
Last Amended on	-	Page	1 of 12

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.	Nut And Nut Products (Cashews/Raw Cashew Nut / Almond/Apricot/ Peanut Pisthachio)	Escherichia coli count	IS 5887 (Part 1): (RA 1995)	≥ 10cfu/gm
		Escherichia coli (Isolation)	IS 5887 (Part 1): 1976 (RA 1995)	Qualitative (Presence/ absence in 1 g)
		Escherichia coli (MPN)	USFDA-BAM Online. Sep. 2002, Chapter 4	0.30 to 1100 MPN/g
		Salmonella	A.O.A.C. International 19 th Edition, Chapter 17, Method 967.25, 967.26, 967.27 USFDA-BAM Online, Latest Version, May 2014, Chapter 5 A.O.A.C-OMA 2013.01 VIDAS-SPT	Qualitative Presence / Absence in 25/ 50/ 125/ 250/ 375 gms
		Staphylococcus aureus (coagulase positive staphylococci)	A.O.A.C. International 19 th Edition, Chapter 17, Method 987.09,975.55 USFDA-BAM Online, Jan.2001,Chapter 12 IS 5887 (Part 8/sec.1): 2002 ISO 6888-1: 1999	≥10 cfu/gm
	Total Plate Count / Standard Plate Count / Aerobic microbial count	USFDA-BAM Online ,Edition Jan. 2001, Chapter3 A.O.A.C. 19 th Edn. Method 966.23 IS 5402: 2002 ISO 4833: 1991	≥10 cfu/gm	

Laboratory	C.E.P.C. Laboratory & Technical Division (The Cashew Export Promotion Council of India), Cashew Bhavan, Mundakkal, Kollam, Kerala		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Biological Testing	Issue Date	02.01.2015
Certificate Number	T-0324	Valid Until	01.01.2017
Last Amended on	-	Page	2 of 12

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Nut and Nut Products (Cashews/Raw Cashew Nut / Almond/Apricot/ Peanut Pisthachio Etc.)	Total Coliforms (MPN)	A.O.A.C. International 19 th Edition, Chapter 17, Method 966.24 USFDA-BAM Online, Jan.2011, Chapter 4 IS 5401 (Part 2): 2002 ISO 4831 : 2006	0.30 gm to 1100 gm
		Coliform Count	USFDA-BAM Online Jan. 2011 Chapter 4 IS 5401 (Part 1): 2002 ISO 4832: 1991	≥10 cfu/gm
		Yeast & Mold Count (Spread plate)	USFDA-BAM Online, April 2001 Chapter 18	≥10 cfu/gm
		Faecal Streptococci (MPN)	IS 5887 (Part 2): 1976 (RA 1991)	0.30 gm to 1100 gm
		Enterobacteriaceae Count	IS / ISO 7402: 1993	≥10 cfu/gm
		Shigella Spp.	IS 5887 (Part 7): 1999	Qualitative (Presence / Absence in 25/50 gms)
		Vibrio cholerae	IS 5887 (Part 5): (RA 1986)	Qualitative (Presence / Absence in 25/50 gms)
		Clostridium perfringens count	USFDA-BAM Online, Jan. 2001 Chapter 16	≥10 cfu/gm
		Bacillus cereus count	USFDA-BAM Online, Jan. 2001 Chapter 14	≥10 cfu/gm

Laboratory	C.E.P.C. Laboratory & Technical Division (The Cashew Export Promotion Council of India), Cashew Bhavan, Mundakkal, Kollam, Kerala		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Biological Testing	Issue Date	02.01.2015
Certificate Number	T-0324	Valid Until	01.01.2017
Last Amended on	-	Page	3 of 12

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Nut and Nut Products (Cashews/Raw Cashew Nut / Almond/Apricot/ Peanut Pisthachio Etc.)	Listeria spp. Listeria monocytogens	IS 14988 (Part 1): 2002 ISO 11290-1: 1996 USFDA-BAM Online-April 2011, Chapter 10. AOAC –OMA 2004.06	Qualitative (Presence / Absence in 25/50 gms)
2.	Meat & Processed Meat Products	Escherichia coli	IS 5887 (Part 1): 1976 (RA 1995) ISO 7251-Third edition, 2005-02-01	Qualitative (Presence / Absence in 1 gm)
		Staphylococcus aureus	IS 5887 (Part 2) IS 5887 (Part 8 Sec.1 & 2): 2002 ISO 6888: 1999 latest edition 2004-01015	Qualitative (Presence / Absence in 1 gm)
		Salmonella Spp.	IS 5887 (Part 3): 1999 ISO 6579-1993: 1995 USFDA-BAM Online- May 2014 Chapter 5	Qualitative (Presence / Absence in 25 gm)
3.	Cereals, Pulses & Processed Cereals Products (Rice, Maida And Cornflakes)	Total plate count	USFDA-BAM Online Jan. 2001, Chapter 3 A.O.A.C. 18 th Edn. Section 966.23 IS 5402: 2002 / ISO 4833: 1991 IS 5402 / ISO 4833: 1991	≥10 cfu/gm
		Coliforms (MPN)	IS 5401 (Part 2):2002 / ISO 4831:1991, USFDA-BAM, Sept. 2002 Chapter 4	3.00 to 1100 MPN/gm

Laboratory	C.E.P.C. Laboratory & Technical Division (The Cashew Export Promotion Council of India), Cashew Bhavan, Mundakkal, Kollam, Kerala		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Biological Testing	Issue Date	02.01.2015
Certificate Number	T-0324	Valid Until	01.01.2017
Last Amended on	-	Page	4 of 12

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Cereals, Pulses & Processed Cereals Products (Rice, Maida And Cornflakes)	Yeasts and Moulds	USFDA-BAM, Online April 2001,Chapter 18: 2001	≥10 cfu/gm
4.	Fruits and Vegetable Products (Fresh, Frozen, Dry/Dehydrated/Glazed Etc.) (Jams, Juices, Sauces, Concentrates Jelly, Soups, Dehydrated/Frozen Fruits & Vegetables, Pickles, Candies, Glazed Fruit Peel, Sugar, Vegetables & Thermally Processed)	Total Plate Count	IS 5402: 2002/ ISO 4833: 1991 (RA 2007)	≥10 cfu/gm
		Yeasts and Mould count	USFDA-BAM Online Jan.2001 Chapter 18	≥10 cfu/gm
5.	Sea Foods/ Fish Products (Frozen Salted, Raw, Cooked, Canned)	Escherichia coli (Isolation)	IS 5887 (Part 1): 1976 (RA 1995) ISO 7251 Third edition 2005-02-01	Qualitative (Presence / Absence in 1 gm)
		Staphylococcus aureus (Isolation)	IS 5887 (Part 8 / sec.1): 2002 ISO 6888-1: 1999 ISO 6888-3 Latest Edition 2004-01-15	(Qualitative) Presence / Absence in 1 gm/ 25 g

Laboratory	C.E.P.C. Laboratory & Technical Division (The Cashew Export Promotion Council of India), Cashew Bhavan, Mundakkal, Kollam, Kerala		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Biological Testing	Issue Date	02.01.2015
Certificate Number	T-0324	Valid Until	01.01.2017
Last Amended on	-	Page	5 of 12

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Sea Foods/ Fish Products (Frozen Salted, Raw, Cooked, Canned)	Salmonella	IS 5887 (Part 3): 1999 ISO 6579: 1993 USFDA-BAM Online -May 2014 Chapter 5	(Qualitative) Presence / Absence in 25 gm
6.	Bakery & Confectionary products including Proprietary foods (Candies, Cakes, Porridge Mixes, Soup Powder, Noodles, Fried Chips, Biscuits, Health Mix Powder)	Total plate count	USFDA-BAM Online Jan. 2001, Chapter 3 A.O.A.C. 18 th Edn. Section 966.23 IS 5402: 2002 / ISO 4833: 1991 IS 5402/ ISO 4833: 1991	≥10 cfu/gm
		Yeasts and Moulds count	IS 5403: 1999 (RA 2009) ISO 7954: 1987 (RA 2009) USFDA-BAM Online, April 2001 Chapter 18	≥10 cfu/gm
7.	Salt & Spices (Herbs, Black Pepper, Coriander Powder, Encapsulated Turmeric, Paprika, Chilly Spices, Condiments In Ground & Powdered)	Yeasts and Moulds count	USFDA-BAM Online, April 2001 Chapter 18	≥10 cfu/gm
		Salmonella	IS 5887 (Part 3): 1999 ISO 6579: 1993 (RA 2009) USFDA-BAM Online May 2014, Chapter 5	Qualitative (Presence / Absence 25 gm)

Laboratory	C.E.P.C. Laboratory & Technical Division (The Cashew Export Promotion Council of India), Cashew Bhavan, Mundakkal, Kollam, Kerala		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Biological Testing	Issue Date	02.01.2015
Certificate Number	T-0324	Valid Until	01.01.2017
Last Amended on	-	Page	6 of 12

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
8.	Canned And Processed Foods / Ready-To Eat Food/Cooked Food/ Desiccated Coconut Powder	Yeasts and Moulds count	USFDA-BAM Online, April 2001 Chapter 18	≥10 cfu/ gm
		Salmonella	IS 5887 (Part 3): 1999/ ISO 6579: 1993 USFDA-BAM Online–May 2014 Chapter 5	(Qualitative) Presence / Absence / 25 gm
9.	Milk and Dairy Products Infant Foods	Total plate count	USFDA-BAM Online Jan. 2001, Chapter 3 IS 5402: 2002 / ISO 4833: 1991	≥1cfu/ gm / ml ≥10 cfu/gm/ml
		Yeasts and Mould count (Pour plate)	IS 5402/ISO 4833: 1991	≥1cfu/ gm / ml ≥10 cfu/gm/ml
		Coliforms (MPN)	IS 5401 (Part 2): 2002 / ISO 4831	3.0 to 1100 MPN/gm/ml
		Escherichia coli (MPN)	USFDA-BAM Online, Chapter 4: IS 5887 (Part 1): 1976 (RA 1995)	3.0 to 1100 MPN/ gm/ml
		Escherichia coli	IS 5887 (Part 1): 1976 (RA 1995) ISO 7251-Third edition, 2005-02-01	Qualitative (Presence / Absence 1 gm)
		Staphylococcus aureus	IS 5887 (Part 8/sec.1): 2002 / ISO 6888-1: 1999 ISO 6888-3 Latest Edition 2004-01-15	Qualitative (Presence / Absence 1/25 gm/ml)
		Salmonella	IS 5887 (Part 3): 1999 ISO 6579: 1993 USFDA-BAM Online–May 2014 Chapter 5	Qualitative (Presence / Absence in / 25 gm/ml)

Laboratory	C.E.P.C. Laboratory & Technical Division (The Cashew Export Promotion Council of India), Cashew Bhavan, Mundakkal, Kollam, Kerala		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Biological Testing	Issue Date	02.01.2015
Certificate Number	T-0324	Valid Until	01.01.2017
Last Amended on	-	Page	7 of 12

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Milk and Dairy Products Infant Foods	Listeria spp. & Listeria monocytogenes	IS 14988 (Part 1) : 2002 ISO 11290-1 : 1996	Qualitative (Presence / Absence in / 25 gm/ml)
II.	WATER			
1.	Drinking Water (Borewell, Well Water, Open Well, Treated Water)	Total Plate Count	IS 1622: 1981 (RA 2003) Edition 2.4 (2003-05)	≥1 cfu/ml
		Total Coliforms (MPN)	IS 1622: 1981 (RA 2003) Edition 2.4 (2003-05), Appendix B –Table 2 & 3	2 to 1600 MPN / 100 ml 1 to 161 MPN / 100 ml
		Total Coliforms	IS 15185: 2002	Qualitative (Presence / Absence in 100 ml)
		Thermo tolerant Coliform bacteria (Faecal Coliforms)	IS 1622: 1981 (RA 2003) Edition 2.4 (2003-05) Appendix –B Table 2 & 3	2 to 1600 MPN / 100 ml
		Escherichia coli(MPN)	IS 1622: 1981 (RA 2003) Edition 2.4 (2003-05) Appendix –B Table 2 & 3	2 to 1600 MPN / 100 ml
		Escherichia coli	IS 15185: 2002	Qualitative (Presence / Absence in 100 ml)
		Faecal Streptococci (MPN)	IS 1622: 1981 (RA 2003) Edn. 2.4 (2003-2005)	2 to 1600 MPN / 100 ml
		Faecal Streptococci	IS 15186: 2002	Qualitative (Presence / Absence in 100ml)

Laboratory	C.E.P.C. Laboratory & Technical Division (The Cashew Export Promotion Council of India), Cashew Bhavan, Mundakkal, Kollam, Kerala		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Biological Testing	Issue Date	02.01.2015
Certificate Number	T-0324	Valid Until	01.01.2017
Last Amended on	-	Page	8 of 12

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Drinking Water (Borewell, Well Water, Open Well, Treated Water)	Sulphite reducing Anaerobes	IS 13428: 2005 (Annex C)	Qualitative (Presence / Absence in 50 ml)
		Salmonella	IS 15187: 2002	Qualitative (Presence / Absence in 100ml)
		Pseudomonas aeruginosa	IS 13428: 2005 (Annex D)	Qualitative (Presence / Absence in 100ml)
		Yeast & Mold	IS 5403: 1999 IS 15188: 2002	Qualitative (Presence / Absence in 100ml)
2.	Processed Industry Water	Total Plate Count	IS 1622: 1981 (RA 2003) Edn. 2.4 (2003-2005)	>1 cfu/ml
		Total Coliforms	IS 1622: 1981 (RA 2003) Edn. 2.4 (2003-2005) Appendix B -Table 2 & 3	2 to 1600 MPN / 100 ml 1 to 161 MPN / 100 ml
		Thermophilic bacteria	IS 4251: 1967 (RA 1977)	>1 cfu/ml
		Proteolytic & Lipolytic bacteria	IS 4251: 1967 (RA 1977)	>1 cfu/ml
3.	Packaged Drinking Water	Escherichia coli	IS 15185: 2002	Qualitative (Presence / Absence in 250 ml)
		Salmonella	IS 15187: 2002	Qualitative (Presence / Absence in 250 ml)

Laboratory	C.E.P.C. Laboratory & Technical Division (The Cashew Export Promotion Council of India), Cashew Bhavan, Mundakkal, Kollam, Kerala		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Biological Testing	Issue Date	02.01.2015
Certificate Number	T-0324	Valid Until	01.01.2017
Last Amended on	-	Page	9 of 12

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Packaged Drinking Water	Staphylococcus aureus	IS 5887 (Part 8 / sec 1): 2002 IS 15188: 2002	Qualitative (Presence / Absence in 250 ml)
		Aerobic microbial count at 22 °C / 72 hrs	IS 5402: 2002	≥1 cfu/ml
		Aerobic microbial count at 37 °C / 24 hrs	IS 5402: 2002	≥1 cfu/ml
		Total Coliforms	IS 15185: 2002 IS 5401 (Part 1): 2002	Qualitative (Presence / Absence in 250 ml)
		Yeast & Mold	IS 5403: 1999 IS 15188: 2002	Qualitative (Presence / Absence in 250 ml)
		Faecal Streptococci	IS 15186: 2002	Qualitative (Presence / Absence in 250 ml)
		Vibrio cholerae	IS 5887 (Part 5): 1976 (RA 2005) IS 15188: 2002	Qualitative (Presence / Absence in 250 ml)
		V.Parahaemolyticus	IS 5887 (Part 5): 1976 (RA 2005) IS 15188: 2002	Qualitative (Presence / Absence in 250 ml)
		Shigella	IS 5887 (Part 7): 1999 IS 15188: 2002	Qualitative (Presence / Absence in 250 ml)

Laboratory	C.E.P.C. Laboratory & Technical Division (The Cashew Export Promotion Council of India), Cashew Bhavan, Mundakkal, Kollam, Kerala		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Biological Testing	Issue Date	02.01.2015
Certificate Number	T-0324	Valid Until	01.01.2017
Last Amended on	-	Page	10 of 12

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Packaged Drinking Water	Sulphite reducing anaerobes (Clostridia)	IS 13428: 2005 Annex. C	Qualitative (Presence / Absence in 50 ml)
		Pseudomonas aeruginosa	IS 13428: 2005 Annex. D IS 15188: 2002	Qualitative (Presence / Absence in 250 ml)
4.	Drinking Water	Total Coliforms (MPN)	IS 1622: 1981 (RA 2003) Edn. 2.4 (2003-2005) Appendix B -Table 2 & 3	2 to 1600 MPN / 100 ml 1 to 161MPN / 100 ml
		Thermotolerant coliform bacteria (MPN) (Faecal coliforms)	IS 1622: 1981 (RA 2003) Edn. 2.4 (2003-2005) Appendix B -Table 2 & 3	2 to 1600 MPN / 100 ml 1 to 161 MPN / 100 ml
		Escherichia coli (MPN)	IS 1622: 1981 (RA 2003) Edn. 2.4 (2003-2005) Appendix B -Table 2 & 3	2 to 1600 MPN / 100 ml ≥ 1 to 161MPN / 100 ml
III. ENVIRONMENT & POLLUTION				
1.	Swab Samples From Food Contact Surfaces/Workers Hand /Workers Uniform/Utensils/ Finger Dabbing /Floor	Total Plate Count	ISO 18593 Edi. 2004-06-01 USFDA-BAM, Chapter 3: 2001 IS 5402: 2012/ ISO 4833: 2003	≥ 5 cfu/cm ² ≥ 5 cfu/25 cm ² ≥ 5 cfu/100 cm ²
		Total Coliforms	ISO 18593, First edition 2004-06-01 IS : 5401 (Part 1) 2002 USFDA-BAM Online Jan.2011, Chapter 4	≥ 5 cfu/cm ² /25cm ² ≥ 5 cfu/25 cm ² ≥ 5 cfu/100 cm ²

Laboratory	C.E.P.C. Laboratory & Technical Division (The Cashew Export Promotion Council of India), Cashew Bhavan, Mundakkal, Kollam, Kerala		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Biological Testing	Issue Date	02.01.2015
Certificate Number	T-0324	Valid Until	01.01.2017
Last Amended on	-	Page	11 of 12

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 From Food Contact Surfaces/Workers Hand /Workers Uniform/Utensils/ Finger Dabbing /Floor	Yeast & Mold	ISO 18593 First edition 2004-06-01 USFDA-BAM Online Jan.2001Chapter 18 IS 5403: 1999,RA 2009/ ISO 7954: 1987	≥ 5 cfu/cm ² /25cm ² ≥ 5 cfu/25 cm ² ≥ 5 cfu/100 cm ²
		Enterobacteriaceae	ISO 18593, Edi. 2004-06-01 IS/ISO 7402: 1993	≥ 5 cfu/cm ² /25cm ² ≥ 5 cfu/25 cm ² ≥ 5 cfu/100 cm ²
		Salmonella	ISO 18593 First edition 2004-06-01 IS 5887 (Part 3): 1999 ISO 6579: 1993 USFDA-BAM Online -May 2014 Chapter 5	(Qualitative) (Presence / Absence in 25cm ² to 100 cm ²)
		Listeria spp. & Listeria monocytogenes	ISO 18593 Edi. 2004-06-01 IS 14988 (Part 1): 2002 ISO 11290-1: 1996 AOAC –OMA 2004.06	(Qualitative) (Presence / Absence in 25cm ² to 100 cm ²)
2.	Finger Dabbing	Coliforms	ISO 18593Edi. 2004-06-01 IS 5401 (Part 1): 2002	Qualitative (Presence / Absence/Swab)
3.	Air Exposed Plates	Total Plate Count	Compendium of methods for microbiological examination of foods, APHA 4 th Edition, 2001, Chapter 3 USFDA-BAM, Chapter 3:2001 IS 5402: 2012 / ISO 4833: 2003	≥ 1 cfu/m ³ ≥ 1 cfu/15 minutes exposure

Laboratory C.E.P.C. Laboratory & Technical Division (The Cashew Export Promotion Council of India), Cashew Bhavan, Mundakkal, Kollam, Kerala

Accreditation Standard ISO/IEC 17025: 2005

Discipline Biological Testing **Issue Date** 02.01.2015

Certificate Number T-0324 **Valid Until** 01.01.2017

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

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Air Exposed Plates	Yeast and Mold	Compendium of methods for microbiological examination of foods, APHA 4 th Edition, 2001, Chapter 3 USFDA-BAM, Chapter 18:2001 IS 5403: 1999 (RA 2009) ISO 7959: 1987	≥1 cfu/m ³ ≥1 cfu/15 minutes exposure

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