

Laboratory

Parry Agro Research & Development Centre, Parry Agro Industries Limited, Murugalli Tea Factory, Murugalli Bazar, Valparai, Coimbatore, Tamil Nadu

Location 1: Murugalli Tea Factory, Murugalli Bazar, Valparai, Coimbatore, Tamil Nadu

Location 2: Mayura Tea Factory, Murugalli Bazar, Valparai, Coimbatore, Tamil Nadu

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-5010 (in lieu of T-0518 & T-0623)

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Last Amended on 27.02.2017

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

LOCATION 1				
I.	FOOD AND AGRICULTURAL PRODUCTS			
1.	Tea-Leaves, Black Tea, Green Tea, Green tea Extract, Organic Tea	Total Plate Count/ Standard Plate Count	IS : 5402 : 2012 ISO 4833 : 2003	10 cfu /g to 10 ⁶ cfu /g
		Yeast and Mould Count	IS : 5403 – 1999 Re affirmed 2005	10 cfu/g to 10 ⁶ cfu/g
		Coliform (MPN)	IS : 5401 (Part 2) : 2012 ISO 4831 :1991	0.3 MPN /g to 110 MPN /g
		Escherichia coli (MPN)	IS : 5887 (Part-1)-1976 Reaffirmed (2005)	0.3 MPN/g to 110 MPN/g
		Salmonella spp	IS : 5887 (Part-3)-1999 Reaffirmed (2005)	Present / Absent / 25 g
		Shigella	IS : 5887 (Part-7)-1999 Reaffirmed (2005)	Present / Absent / 25 g
		Staphylococcus aureus count	IS : 5887 (Part-2)-1976 Reaffirmed (2005)	10 cfu/g to 10 ⁶ cfu/g
		Faecal Streptococci (MPN)	IS : 5887 (Part-2)- 1976 Reaffirmed (2005)	0.3 MPN/g to 110 MPN/g
		Bacillus cereus	IS : 5887 (Part-6)-2012	10 cfu/g to 10 ⁶ cfu/g

**Bhumi Rajyaguru
Convenor**

**N. Venkateswaran
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II.	ENVIRONMENT AND POLLUTION			
1.	Hygienic Samples Personals Factory Machineries (swab)	Total Plate Count (sample from personals)	IS 1622:1981 (Reaffirmed 1996) Edition 2.4 (2003-2005) and ISO18593:2005 (E)	10 cfu/swab to 10 ⁶ cfu/swab
		Total Plate Count (sample from Machineries)	IS : 1622;-1981 (Reaffirmed 1996) Edition 2.4 (2003-2005) and ISO 18593:2005 (E)	1 cfu / cm ² to 10 ⁶ cfu / cm ²
2.	Wash water from food contact surface / workers hand/Machineries Drinking Water	Coliform (MPN)	IS : 1622;-1981 (Reaffirmed 1996) Edition 2.4 (2003-2005)	2 MPN/100ml to 542 MPN/100ml
		Escherichia Coli (MPN)	IS : 1622;-1981 (Reaffirmed 1996) Edition 2.4 (2003-2005)	2 MPN/100ml to 542 MPN/100ml
		Faecal Streptococci (MPN)	IS : 1622;-1981 (Reaffirmed 1996) Edition 2.4 (2003-2005)	2 MPN/100ml to 542 MPN/100ml
		Standard Plate Count	IS : 1622;-1981 (Reaffirmed 1996) Edition 2.4 (2003-2005)	10 cfu/m to 10 ⁶ cfu/m
		Coliforms (MPN)	IS : 1622;-1981 (Reaffirmed 1996) Edition 2.4 (2003-2005)	2 MPN/100ml to 542 MPN/100ml
		E. Coli (MPN)	IS : 1622;-1981 (Reaffirmed 1996) Edition 2.4 (2003-2005)	2 MPN/100ml to 542 MPN/100ml

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		Salmonella Spp.	IS : 15187 :2002 (ISO 6340:1995)	Present / Absent / 25 ml
		Shigella	IS : 5887 (Part-7)-1999 Reaffirmed 2005	Present / Absent / 25 ml
		Faecal Streptococci (MPN)	IS : 1622;-1981 (Reaffirmed 1996) Edition 2.4 (2003-2005)	2 MPN/100ml to 542 MPN/100ml

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CHEMICAL TESTING

LOCATION 1				
I. FOOD & AGRICULTURAL PRODUCTS				
1.	Black Tea, Green Tea & Beverages	Total Ash	IS 13854 : 1994 (Reaffirmed 2009)	0.5 % to 10% (w/w)
		Water Soluble Ash	IS 13855 : 1993 (Reaffirmed 2009)	5 % to 80% (w/w)
		Acid Insoluble Ash	IS 13857 : 1993 (Reaffirmed 2009)	0.01 % to 1.5% (w/w)
		Alkalinity of water soluble Ash	IS 13856 : 1993 (Reaffirmed 2009)	0.05 % to 3.0% (w/w)
		Water Extract	IS 13862 :1999 (Reaffirmed 2009)	5 % to 50% (w/w)
		Crude Fibre	ISO 15598: 1999 IS: 16041:2012	3 % to 30% (w/w)
		Caffeine	ISO 10727-2002 IS: 16027:2012 By HPLC	0.1 % to 7.0% (w/w)
		Theaflavins (TF), Thearubigins (TR), High Polymerised substances (HPS) & Total liquor colour (TLC)	Doc. No-LM 8) Issue No: 06 Issue date: June 2016	TF:0.05-2.0% (w/w) TR:1.0-18.0% (w/w) HPS:1.0-18.0% (w/w) TLC-0.5- 6.0
		Content of total Polyphenols in tea	ISO 14502-1 : 2005 (E) by Spectrophotometer	3 % to 90% (w/w)

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		Content of catechins in Green & Black Tea	ISO 14502-2 : 2005 (E) By HPLC ISO 14502-2 : 2005 (E) By HPLC	2.0 % to 80.0% (w/w)
		Iron Filling	IS: 3633:2003 (Reaffirmed 2013)	0.4 mg/kg to 1000 mg/kg
2.	Vanilla	Vanillin Content	AOAC -2005(method No. 990.25), 18th Edition	0.1 % to 10% (w/w)
3.	Pepper	Piperine	AOAC -2005 (method No. 987.07), 18th Edition	3 % to 8% (w/w)
		Total Ash	Method No. 1.05. Official Analytical Method of The Spices Board, First Edition - 2000	3 % to 10% (w/w)
		Acid Insoluble Ash	Method No. 1.06. Official Analytical Method of The Spices Board, First Edition - 2000	0.01 % to 2.0% (w/w)
		Crude Fibre	ISO 15598: 1999 (E)	5 % to 20% (w/w)
II.	SOIL & ROCK			
1.	Soil	pH	AOAC-2016 (method No. 994.16) 20 th Edition	2 to 9 unit
		Specific Electrical Conductivity	IS-14767:2000 (Reaffirmed 2011)	0.01 dSm-1 to 0.1dSm-1 0.11 dSm-1 to 3.0dSm-1
		Potassium Sodium	IS 9497 : 1980 (Reaffirmed 1988) By Flame Photometer	10 mg/kg to 1000 mg/kg 10 mg/kg to 1000 mg/kg

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		Calcium Magnesium	IS 5949:1990 (Feb' 1991)	50 mg/kg to 4000 mg/kg 20 mg/kg to 1000 mg/kg
III.	RESIDUES IN FOOD & WATER			
1.	Black Tea, Green Tea, Vanilla, Pepper & Food Products	Dicofol Residues	IS 14629:1999 (Reaffirmed 2009) (GC method)	0.1 mg/kg to 100 mg/kg
		Ethion Residues	IS 11773:2003 (Reaffirmed 2009) (GC method)	0.1 mg/kg to 100 mg/kg
		Endosulfan Residues	IS 12611 : 1989 (Reaffirmed 2009) (GC method)	0.1 mg/kg to 100 mg/kg
		Quinolphos Residues	IS 14437 : 1997 (Reaffirmed 2009) (GC method)	0.1 mg/kg to 100 mg/kg
		Chlorpyrifos Residues	IS 12365 :1998 (Reaffirmed 2009) (GC method)	0.1 mg/kg to 100 mg/kg
		Hexaconazole residue in Tea	Doc. No-LMPR-6. (GC method) Issue No: 06 Issue date: June 2016	0.1 mg/kg to 100 mg/kg
		Propargite Residues	Doc. No-LMPR-7, Issue No: 06, Issue date: June 2016	0.1 mg/kg to 100mg/kg
		Fenpyroximate Residues	Doc. No-LMPR-8, Issue No: 06, Issue date: June 2016	0.25 mg/kg to 100 mg/kg
IV.	INDUSTRIAL & FINE CHEMICALS			
1.	Copper - Oxychloride	pH of 1% (w/w)(W/V) Suspension	IS 1507 : 1977 (Reaffirmed 1997)	2.0 to 9.0

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		Suspensibility (%)	IS 6940 : 1982 (Reaffirmed 2002) Edition 2.2 (2003-10)	40 % to 95 % (w/w)
		Copper (Cu) content (%)	IS 1506 : 1977 (Reaffirmed 1997)	20 % to 80 % (w/w)

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	LOCATION 2			
I.	FOOD & AGRICULTURAL PRODUCTS			
1.	Black Tea, Green Tea & Beverages	Total Ash	IS 13854 : 1994 (Reaffirmed 2009)	0.5 % to 10 % (w/w)
		Water Soluble Ash	IS 13855 : 1993 (Reaffirmed 2009)	5 % to 80 % (w/w)
		Acid Insoluble Ash	IS 13857 : 1993 (Reaffirmed 2009)	0.01 % to 1.5 % (w/w)
		Alkalinity of Ash	IS 13856 : 1993 (Reaffirmed 2009)	0.05 % to 3.0 % (w/w)
		Water Extract Crude Fibre	IS 13862 :1999 (Reaffirmed 2009) ISO 15598: 1999 IS: 16041:2012	5 % to 50 % (w/w) 3 % to 30 % (w/w)
		Theaflavins (TF), Thearubigins (TR), High Polymerised Substances (HPS) & Total liquor colour (TLC)	(Doc. No-LM7) Issue No: 06 Issue date: June 2016	TF:0.05-2.0 % (w/w) TR:1.0-18.0 % (w/w) HPS:1.0-18.0 % (w/w) TLC-0.5- 6.0

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