

Laboratory	Punjab Biotechnology Incubator, Agri & Food Testing Laboratory, SCO:7-8, Top Floor, Phase-V, SAS Nagar, Mohali		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	25.07.2013
Certificate Number	T-1582	Valid Until	24.07.2015
Last Amended on	-	Page	1 of 39

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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I. DISINFECTANTS

1.	Disinfectant Fluids, Phenolic type (IS 1061:2002)	Flash Point (Abel)	IS 1448 (Pt. 20)	20-50 °C
		Volatile Matter	IS 10758:1983	1-95%
2.	De-odourizing-cum- Disinfectant Fluids (IS 10758):2002	Steam Volatile Oil	IS 10758:1983	Qualitative Presence/ Absence
		Stability after dilution	IS 1061:1997	Qualitative Presence/ Absence
		Stability after storage	IS 1061:1997	Qualitative Presence/ Absence
		Mercury Compound	IS 1061:1997 (Annex D)	Qualitative Presence/ Absence
		Persistence of odour	IS 10758:1983	Qualitative Presence/ Absence

II. FOOD & AGRICULTURAL PRODUCTS

1.	Animal Feeds	Moisture	IS 7874 (Pt. I):1975	0.2 – 15 %
	Mineral Mixture for Supplementing Cattle Feed (IS:1664:2002)	Calcium	IS 15121:2002/ AOAC 19 th Ed. 968.08/ IS 13422 (Pt. I & II) : 1992	0.1 - 40 %
	Poultry Feed (IS: 1374 :2007	Phosphorus	IS 14828:2000/ AOAC 19 th Ed. 965.17	0.1 - 26 %
	Compounded Feeds for Cattle (IS 2052 : 2010)	Available Phosphorus	IS 1374: 2007	0.1 - 26 %

Laboratory	Punjab Biotechnology Incubator, Agri & Food Testing Laboratory, SCO:7-8, Top Floor, Phase-V, SAS Nagar, Mohali		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	25.07.2013
Certificate Number	T-1582	Valid Until	24.07.2015
Last Amended on	-	Page	2 of 39

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Animal Feeds	Magnesium	IS 15121:2002 / AOAC 19 th Ed. 968.08	0.1 - 20 %
	Mineral Mixture for Supplementing Cattle Feed (IS:1664:2002)	Salt (Chlorine as NaCl)	IS 7874 (Pt. I):1975/ AOAC 19 th Ed. 943.01	0.3 – 20 %
	Poultry Feed (IS: 1374 :2007	Iron	IS 15121:2002/ AOAC 19 th Ed. 968.08	0.1 – 5 %
	Compounded Feeds for Cattle (IS 2052 : 2010)	Copper	IS 15121:2002/ AOAC 19 th Ed. 968.08	5 mg/kg - 22 %
		Manganese	IS 15121:2002/ AOAC 19 th Ed. 968.08	5 mg/kg – 2 %
		Cobalt	IS 15121:2002/ AOAC 19 th Ed. 968.08	0.02 – 1 %
		Zinc	IS 15121:2002/ AOAC 19 th Ed. 968.08	5 mg/kg – 5%
		Acid insoluble ash	IS 7874 (Pt. I):1975	0.01 – 10 %
		Lead (as Pb)	AOAC 19 th Ed. 968.08	1 mg/kg - 0.1%
		Total ash	IS 7874 (Pt. I):1975/ IS 5470:2002 (Annex C)	0.1 – 40 %
	Proteinous / Organic Impurities	IS 5470:2002 (Annex D)	Present/Absent	
	Protein (N x 6.25)	IS 7874:1986 (RA:2004)/ AOAC 19 th Ed. 976.06	0.1 - 40%	
	Crude Fat	IS 7874 (Pt. I):1975/ IS: 2052:1979	0.1 - 40%	

Laboratory	Punjab Biotechnology Incubator, Agri & Food Testing Laboratory, SCO:7-8, Top Floor, Phase-V, SAS Nagar, Mohali		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	25.07.2013
Certificate Number	T-1582	Valid Until	24.07.2015
Last Amended on	-	Page	3 of 39

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Animal Feeds	Crude Fibre	IS 7874 (Pt. I):1975/ IS: 2052:1979/ AOAC 19 th Ed (Ch 4)	0.1 - 40%
	Mineral Mixture for Supplementing Cattle Feed (IS:1664:2002)	Vitamin A	PBTI/SOP/10/TP-04 HPLC DOI : 05.03.10 / IS 15120: 2002	1 – 2000 µg/g (2.907-5814 IU/g)
	Poultry Feed (IS: 1374 :2007)	Sulphur	IS:1664:2002	1 – 30 %
	Compounded Feeds for Cattle (IS 2052 : 2010)	Iodine (as KI)	AOAC 935.14	0.001 – 0.1%
		Material Passing 212µ IS Sieve	AOAC 973.03	1-100%
		Fluorine	IS 5470:2002	0.1 - 1 mg/kg
		Potassium	IS 15121/ AOAC 19 th Ed. 968.08	0.05 - 10%
		Arsenic	IS 1767 : 1980	1 - 50 mg/kg
		Aflatoxin B1	IS 2052 (Annex G) : 2009	15 µg/kg-1 mg/kg
2	Bakery & Confectionary Products	Moisture	IS 1011:2002/ DGHS Lab Manual-3	0.1-10%
a.	Biscuits, Bread (As per FSSA)	Ash	IS 1011:2002/ DGHS Lab Manual-3	0.1-10%
		Acid Insoluble Ash	IS 1011:2002/ DGHS Lab Manual-3	0.01-0.2%
		Fat	IS 1011:2002/ DGHS Lab Manual-3	0.01 – 35 %

Laboratory	Punjab Biotechnology Incubator, Agri & Food Testing Laboratory, SCO:7-8, Top Floor, Phase-V, SAS Nagar, Mohali		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	25.07.2013
Certificate Number	T-1582	Valid Until	24.07.2015
Last Amended on	-	Page	4 of 39

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Bakery & Confectionary Products Biscuits, Bread (As per FSSA)	Acidity of extracted fat	IS 1011:2002/ DGHS Lab Manual-3	0.01 – 5 %
		Energy	PBTI/SOP/18/TP-11 DOI : 22.02.11	1-900 kcal/100g
		Carbohydrates	PBTI/SOP/18/TP-11 DOI : 22.02.11	1-100 %
		Sugar	PBTI/SOP/16/TP-09 DOI : 22.02.11/ AOAC 923.09	1-80%
		Vitamin C	IS 5838:1970 (RA 2005)	1 – 1000 mg/100g
		Protein	IS 7219:1973 (RA 2005)/ AOAC 19 th Ed. 976.06/ DGHS Lab Manual-3	1- 40 %
		Dietary fibre	AOAC 19 th Ed. 985.29	0.1 - 10%
		Zinc (as Zn)	AOAC 19 th Ed. 999.10, 999.11	1 -100 mg/kg
		Selenium (as Se)	AOAC 19 th Ed. 986.15	0.25 -10 mg/kg
		Sodium (as Na)	AOAC 19 th Ed. 999.10, 999.11	10 -7500 mg/kg
		Calcium	AOAC 19 th Ed. 944.03/ DGHS Lab Manual-3	0.1 - 5%
		Alcoholic Acidity	DGHS Lab Manual-3	0.02 – 5 %

Laboratory	Punjab Biotechnology Incubator, Agri & Food Testing Laboratory, SCO:7-8, Top Floor, Phase-V, SAS Nagar, Mohali		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	25.07.2013
Certificate Number	T-1582	Valid Until	24.07.2015
Last Amended on	-	Page	5 of 39

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
b.	Sweets & Confectionary (Sugar Boiled Confectionary, Lozenges, Chewing & Bubble Gum, Chocolates, Ice Lollies or Edible Ices) (AS per FSSA)	Moisture	DGHS Lab Manual-4/ AOAC 19 th ED. (Ch 44)	0.1-50%
		Sulphated Ash (salt free basis)	DGHS Lab Manual-4/ AOAC 19 th ED. (Ch 44)	0.1-20%
		Acid insoluble Ash	DGHS Lab Manual-4/ AOAC 19 th ED. (Ch 44)	0.01-5%
		Fat	DGHS Lab Manual-4/ AOAC 19 th ED. (Ch 44)	0.01 – 35 %
		Total Protein	DGHS Lab Manual-4/ AOAC 19 th ED. (Ch 44)	1- 40 %
		Sucrose	DGHS Lab Manual-4/ AOAC 19 th ED. (Ch 44)	1-80%
		Reducing sugars (as dextrose)	DGHS Lab Manual-4/ AOAC 19 th ED. (Ch 44)	1-80%
		Total sugars	DGHS Lab Manual-4/ AOAC 19 th ED. (Ch 44)	1-80%
		Gum based Content	DGHS Lab Manual-4	5-50 %
		Cocoa solids	DGHS Lab Manual-4	0.2 – 99 %
Milk solids	DGHS Lab Manual-4	0.2 – 99 %		
3.	Cereals, Pulses & By products	Moisture	IS 1155:1968 (RA 2005)/ DGHS Lab Manual-3	0.1 – 20 %
a.	Wheat Atta	Total Ash	IS 1155:1968 (RA 2005)/ DGHS Lab Manual-3	0.1 – 20 %

Laboratory	Punjab Biotechnology Incubator, Agri & Food Testing Laboratory, SCO:7-8, Top Floor, Phase-V, SAS Nagar, Mohali		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	25.07.2013
Certificate Number	T-1582	Valid Until	24.07.2015
Last Amended on	-	Page	6 of 39

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Wheat Atta	Acid Insoluble ash	IS 1155:1968 (RA 2005)/ DGHS Lab Manual-3	0.02 – 5 %
		Wet Gluten	AACC 38-12 A/ DGHS Lab Manual-3	2.0 – 40 %
		Dry Gluten	IS 1155:1968 (RA 2005), AACC 38-12 A/ DGHS Lab Manual-3	1.0 – 20 %
		Alcoholic Acidity	IS 1155:1968 (RA 2005)/ DGHS Lab Manual-3	0.02 – 5 %
		Falling Number	AACC 56-81 B	90-650 seconds
		Protein	IS 7219:1973 (RA 2005), AOAC 19 th Ed. 976.06/ DGHS Lab Manual-3	1– 40 %
		Calcium	AOAC 19 th Ed. 999.10-11	0.01 – 5 %
		Crude Fibre	IS 1155:1968 (RA 2005)/ DGHS Lab Manual-3/ AOAC 19 th Ed. (Ch 32)	0.5 - 50%
		Granularity	IS 1155:1968 (RA 2005)	1-100%
		Iron	IS 1656:1969, AOAC 19 th Ed. 999.10-11 (Ch 9)	1– 100 mg/kg
		Calcium carbonate	DGHS Lab Manual-3	0.1-2 %
b.	Maida	Moisture	IS 1009:1979 (RA 2005)	0.1 – 20 %
		Total Ash	IS 1009:1979 (RA 2005)	0.1 – 20 %

Laboratory	Punjab Biotechnology Incubator, Agri & Food Testing Laboratory, SCO:7-8, Top Floor, Phase-V, SAS Nagar, Mohali		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	25.07.2013
Certificate Number	T-1582	Valid Until	24.07.2015
Last Amended on	-	Page	7 of 39

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Maida	Acid Insoluble ash	IS 1009:1979 (RA 2005)	0.02 – 5 %
		Wet Gluten	AACC 38-12 A	2.0 – 40 %
		Dry Gluten	IS 1009:1979 (RA 2005) / AACC 38-12 A	1.0 – 20 %
		Alcoholic Acidity	IS 1009:1979	0.02– 5 %
		Falling Number	AACC 56-81 B	90-650 seconds
		Protein	IS 7219:1973 (RA 2005), AOAC 19 th Ed. 976.06	1– 40 %
		Calcium	AOAC 19 th Ed. 999.10-11	0.01 – 5 %
		Iron	AOAC 19 th Ed. 999.10-11	1– 100 mg/kg
		Calcium carbonate	DGHS Lab Manual-3	0.1-2 %
c.	Corn Flour	Moisture	DGHS Lab Manual-3/ IS 1005:1992(RA: 1997)	0.1 – 20 %
		Total Ash	DGHS Lab Manual-3/ IS 1005:1992 (RA: 1997)	0.1 – 20 %
		Acid Insoluble ash	DGHS Lab Manual-3/ IS 1005:1992 (RA: 1997)	0.02 – 5 %
		Alcoholic Acidity	DGHS Lab Manual-3/ IS 1005:1992(RA: 1997)	0.02– 5 %
d.	Corn Flakes	Moisture	DGHS Lab Manual-3/ IS 1158: 1973(RA: 2005)	0.1 – 20 %

Laboratory	Punjab Biotechnology Incubator, Agri & Food Testing Laboratory, SCO:7-8, Top Floor, Phase-V, SAS Nagar, Mohali		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	25.07.2013
Certificate Number	T-1582	Valid Until	24.07.2015
Last Amended on	-	Page	8 of 39

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Corn Flakes	Total Ash excluding salt	DGHS Lab Manual-3/ IS 1158: 1973(RA: 2005)	0.1 – 20 %
		Acid Insoluble ash	DGHS Lab Manual-3/ IS 1158: 1973(RA: 2005)	0.02 – 5 %
		Alcoholic Acidity	DGHS Lab Manual-3/ IS 1158: 1973(RA: 2005)	0.02 – 5 %
e.	Semolina	Moisture	IS 1010:1968 (RA 2005) / DGHS Lab Manual-3	0.1 – 20 %
		Total Ash	IS 1010:1968 (RA 2005)/ DGHS Lab Manual-3	0.1 – 20 %
		Acid Insoluble ash	IS 1010:1968 (RA 2005)/ DGHS Lab Manual-3	0.02 – 5 %
		Dry Gluten	IS 1010:1968 (RA 2005), AACC 38-12 A/ DGHS manual	1.0 – 20 %
		Alcoholic Acidity	IS 1010:1968 (RA 2005)/ DGHS Lab Manual-3	0.02 – 5 %
f.	Custard Powder	Moisture	DGHS Lab Manual-3	0.1 – 20 %
		Total Ash excluding salt	DGHS Lab Manual-3	0.1 – 20 %
		Acid Insoluble ash	DGHS Lab Manual-3	0.02 – 5 %
g.	Macaroni	Moisture	IS 1485-1993	0.1 – 20 %
		Total Ash	IS 1485-1993	0.1 – 20 %

Laboratory	Punjab Biotechnology Incubator, Agri & Food Testing Laboratory, SCO:7-8, Top Floor, Phase-V, SAS Nagar, Mohali		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	25.07.2013
Certificate Number	T-1582	Valid Until	24.07.2015
Last Amended on	-	Page	9 of 39

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Macaroni	Acid Insoluble ash	IS 1485-1993	0.02 – 5 %
		Nitrogen	IS 1485-1993	01-40 %
h.	Solvent Extracted Flours:	Moisture	DGHS Lab Manual-3	0.1 – 20 %
		Total Ash	DGHS Lab Manual-3	0.1 – 20 %
		Acid Insoluble ash	DGHS Lab Manual-3	0.02 – 5 %
		Alcoholic Acidity	DGHS Lab Manual-3	0.02 – 5 %
		Protein	IS 7219:1973 (RA 2005), AOAC 19 th Ed. 976.06 / DGHS Manual	1– 90 %
		Crude Fibre	DGHS Lab Manual-3/ AOAC 19 th Ed.	0.5 - 50%
		Fat	DGHS Lab Manual-3	0.1-10 %
i.	Starchy Food	Total Ash	DGHS Lab Manual-3	0.1 – 20 %
		Acid Insoluble ash	DGHS Lab Manual-3	0.02 – 5 %
j.	Rolled Oats	Moisture	DGHS Lab Manual-3	0.1 – 20 %
		Total Ash	DGHS Lab Manual-3	0.1 – 20 %
		Acid Insoluble ash	DGHS Lab Manual-3	0.02 – 5 %
		Alcoholic Acidity	DGHS Lab Manual-3	0.02 – 5 %

Laboratory	Punjab Biotechnology Incubator, Agri & Food Testing Laboratory, SCO:7-8, Top Floor, Phase-V, SAS Nagar, Mohali		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	25.07.2013
Certificate Number	T-1582	Valid Until	24.07.2015
Last Amended on	-	Page	10 of 39

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Rolled Oats	Nitrogen	IS 7219:1973 (RA 2005), AOAC 19 th Ed. 976.06 / DGHS Lab Manual-3	0.5– 90 %
		Crude Fibre	DGHS Lab Manual-3/ AOAC 19 th ED. (Ch 32)	0.01 - 50%
k.	Besan	Total Ash	IS 1155:1968 (RA 2005)/ DGHS Lab Manual-3/ IS 2400 :1976	0.1 – 20 %
		Acid Insoluble ash	IS 1155:1968 (RA 2005)/ DGHS Lab Manual-3/ IS 2400 :1976	0.02 – 5 %
l.	Food Grains	Moisture	DGHS Lab Manual-3	0.1 – 20 %
		Physical Parameters (Foreign Matter, Other edible grains, Damaged Grain, Weevilled Grains)	DGHS Lab Manual-3	0.01-10 %
		Uric Acid	DGHS Lab Manual-3	10-200 mg/kg
		Aflatoxins(G1,G2,B1,B2)	AOAC 990.33/	15-100 µg/kg
m.	Malted Milk Foods (IS 1806 : 1975 RA 2000)	Moisture	IS 1806:1975 (RA 2000)	0.1 – 40 %
		Fat	IS 11721:2005	0.1 – 40 %
		Total Ash	IS 14433:2007	0.1 – 15 %
		Acid-Insoluble Ash	IS 14433:2007	0.1 – 5 %

Laboratory	Punjab Biotechnology Incubator, Agri & Food Testing Laboratory, SCO:7-8, Top Floor, Phase-V, SAS Nagar, Mohali		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	25.07.2013
Certificate Number	T-1582	Valid Until	24.07.2015
Last Amended on	-	Page	11 of 39

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Malted Milk Foods (IS 1806 : 1975 RA 2000)	Test for Starch	IS 1806:1975 (RA 2000)	Qualitative Presence/ Absence
		Total Protein	IS 7219:1973 (RA 2005),/ AOAC 976.06	0.5 – 40 %
		Vitamin A	IS 5886 : 1970 (RA 2005)	1-5 mg/kg (2.907-14.53 IU/kg)
4,	Milk & Dairy Products	Moisture	IS 16072 : 2012/ DGHS Lab Manual-1	0.1 – 40 %
a.	Milk Powder (IS 1165 : 2002)	Total Solids	IS 1165/ DGHS Lab Manual-1	0.2 – 99 %
		Fat	IS 11721: 2005, IS 1224 (Pt.2):1977 (RA 2003)/ DGHS Lab Manual-1	0.1– 40 %
		Insolubility index	IS12759:1989 (RA 1999)	0.1– 0.5 ml
		Total Ash	IS 1165:2002/ DGHS Lab Manual-1	0.1– 15 %
		Titrateable acidity	IS 1165:2002/ DGHS Lab Manual-1	0.01– 5 %
b.	Dairy Whitener (IS 12299:1998)	Moisture	IS 16072 : 2012/ DGHS Lab Manual-1	0.1 – 40 %
		Milk Solids not Fat	IS 12299:1998	0.2 – 99 %
		Insolubility index	IS 12759:1989 (RA 1999)	0.1– 0.5 ml
		Total Ash	IS 14433:2007	0.1– 15 %

Laboratory	Punjab Biotechnology Incubator, Agri & Food Testing Laboratory, SCO:7-8, Top Floor, Phase-V, SAS Nagar, Mohali		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	25.07.2013
Certificate Number	T-1582	Valid Until	24.07.2015
Last Amended on	-	Page	12 of 39

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Dairy Whitener (IS12299:1998)	Milk Fat	IS 11721: 2005	0.1– 40 %
		Acid Insoluble Ash	IS 14433:2007	0.01– 5 %
		Total Added Sugar	IS 4079:1967 (RA:2000)	0.1– 50 %
c.	Condensed Milk, Partly Skimmed and Skimmed Condensed Milk	Total Milk Solids	IS 1166:1986 (RA 2003) / DGHS Lab Manual-1	0.2 – 99 %
		Fat	IS 11762:2005/ DGHS Lab Manual-1	0.1– 40 %
		Milk Solid Not Fat	By Calculation/ DGHS Lab Manual-1	1-99 %
		Sucrose	IS 1166:1986 (RA 2003) / DGHS Lab Manual-1	0.5– 5 %
		Titrateable acidity (lactic acid)	IS 1166:1986 (RA 2003) / DGHS Lab Manual-1	0.01– 5 %
		Milk Protein in Milk solid not fat	DGHS Lab Manual-1/ AOAC 19 th Ed. (Ch 33)/ IS 7219:1973 (RA 2005)	1 – 90 %
d.	Sweetened ultra high temperature treated condensed milk / condensed skimmed milk (IS 12176:1987)	Total Milk Solids	IS 1166:1986 (RA 2003)	0.2 – 99 %
		Fat	IS 11762:2005	0.1– 40 %
		Sucrose	IS 1166:1986 (RA 2003)	0.5– 5 %
		Titrateable acidity (as lactic acid)	IS 1166:1986 (RA 2003)	0.01– 5 %
		Titrateable acidity (as acetic acid)	IS 1166:1986 (RA 2003)	0.01– 5 %

Laboratory	Punjab Biotechnology Incubator, Agri & Food Testing Laboratory, SCO:7-8, Top Floor, Phase-V, SAS Nagar, Mohali		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	25.07.2013
Certificate Number	T-1582	Valid Until	24.07.2015
Last Amended on	-	Page	13 of 39

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Milk Protein in Milk solid not fat	DGHS Lab Manual-1/ AOAC 19 th Ed. (Ch 33)/ IS 7219:1973 (RA 2005)	1 – 90 %
e.	Skimmed milk powder, Standard grade , IS 13334 (Pt. 1):1998 & Extra grade, IS 13334 (Pt.2) : 1992,	Moisture	IS 16072 : 2012/ DGHS Lab Manual-1	0.1 – 40 %
		Total Solids	IS 13334:1998/ IS 14542/ DGHS Lab Manual-1	0.2 – 99 %
		Milk Fat	IS 11721: 2005/ DGHS Lab Manual-1	0.1– 40 %
	Partly skimmed milk powder, IS 14542: 1998, Whole Milk Powder	Insolubility index	IS 12759:1989 (RA 1999)/ DGHS Lab Manual-1	0.1– 0.5 ml
		Total Ash	IS 14433:2007/ DGHS Lab Manual-1	0.1– 15 %
		Titrateable acidity	IS 11766:1986 (RA 2003)/ DGHS Lab Manual-1	0.01– 5 %
		Milk Protein in Milk solid not fat	DGHS Lab Manual-1/ AOAC 19 th Ed. Ch 33/ IS 7219:1973 (RA 2005)	0.5 – 90 %
f.	Liquid Milk	Total Solids	IS 1479 (Pt. 2):1961 (RA 2003), AOAC 19 th Ed. (Ch 33)	0.2 – 99 %
		Fat	IS 1479/ DGHS Lab Manual-1/ AOAC 19 th Ed. (Ch 33)	0.5 - 10 %
		Milk Solid not fat	IS 1479/IS 1183-1975/ DGHS Lab Manual-1/ AOAC 19 th Ed. Ch 33	1 – 90 %

Laboratory	Punjab Biotechnology Incubator, Agri & Food Testing Laboratory, SCO:7-8, Top Floor, Phase-V, SAS Nagar, Mohali		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	25.07.2013
Certificate Number	T-1582	Valid Until	24.07.2015
Last Amended on	-	Page	14 of 39

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Liquid Milk	Acidity (As Lactic Acid)	IS 1479 (Pt. 1):1960 (RA 2003), AOAC 19 th Ed. (Ch 33)	0.01 – 5 %
		Lactose	IS 1479 (Pt. 2):1961 (RA 2003)	0.5-50%
		Sucrose	IS 1479 (Pt. 2):1961 (RA 2003)	0.5-50%
		Ash	IS 1479 (Pt. 2):1961 (RA 2003), AOAC 19 th Ed. (Ch 33)	0.1-15%
		Adulterants (Starch, Cane Sugar, Water)	IS 1479 (Pt. 1):1960 (RA 2003)	Qualitative Presence/Absence
		Preservatives (Formaldehyde, Benzoic Acid, Hydrogen Peroxide, Boric Acid & Borates)	IS 1479:1960	Qualitative Presence/Absence
		Neutralizers (Carbonates)	IS 1479:1960	Qualitative Presence/ Absence
		Mastitis	IS 1479:1960	Qualitative Presence/ Absence
		Test for Sterilized Milk	IS 1479:1960	Qualitative Presence/ Absence
		Vitamin A	AOAC 19th Edition 2002.06 Ch 45	1 -5mg/kg (2.907-14.54 IU/kg)
		Vitamin D	AOAC 19th Edition 981.17 Ch 45	1-10 mg/kg (40 – 400 IU/kg)

Laboratory	Punjab Biotechnology Incubator, Agri & Food Testing Laboratory, SCO:7-8, Top Floor, Phase-V, SAS Nagar, Mohali		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	25.07.2013
Certificate Number	T-1582	Valid Until	24.07.2015
Last Amended on	-	Page	15 of 39

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Liquid Milk	Lead	IS 1699:1995 (RA 2001), AOAC 19 th Ed. 999.10/	0.012-5 mg/kg
		Cadmium	PBTI/SOP/57:TP-36 ICPMS DOI 6.6.13	0.012-5 mg/kg
		Arsenic		0.012-5 mg/kg
		Mercury		0.012-5 mg/kg
		Aflatoxin M1	PBTI/SOP/60:TP-38 LCMSMS DOI 07.06.13 PBTI/SOP/55:TP-34 HPLC DOI 15.5.13	0.01 µg/kg 0.4 µg/kg
	Pesticide Residue:			
		1.Monocrotophos	PBTI/SOP/53:TP-32- GCMSMS, DOI 11.03.13	10 – 1000 µg/kg
		2. Phorate	PBTI/SOP/53:TP-32- GCMSMS, DOI 11.03.13	10 – 1000 µg/kg
		3. Alpha BHC	PBTI/SOP/53:TP-32- GCMSMS, DOI 11.03.13	0.5 - 1000 µg/kg
		4.Beta BHC	PBTI/SOP/53:TP-32- GCMSMS, DOI 11.03.13	0.5 - 1000 µg/kg
		5.Gama BHC	PBTI/SOP/53:TP-32- GCMSMS, DOI 11.03.13	0.5 - 1000 µg/kg
		6.Diazinon	PBTI/SOP/53:TP-32- GCMSMS, DOI 11.03.13	5 - 1000 µg/kg
		7.Delta BHC	PBTI/SOP/53:TP-32- GCMSMS, DOI 11.03.13	0.5 - 1000 µg/kg

Laboratory Punjab Biotechnology Incubator, Agri & Food Testing Laboratory,
SCO:7-8, Top Floor, Phase-V, SAS Nagar, Mohali

Accreditation Standard ISO/IEC 17025: 2005

Discipline Chemical Testing **Issue Date** 25.07.2013

Certificate Number T-1582 **Valid Until** 24.07.2015

Last Amended on - **Page** 16 of 39

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Liquid Milk	8.Methyl parathion	PBTI/SOP/53:TP-32- GCMSMS, DOI 11.03.13	10 - 1000 µg/kg
		9.Heptachlor	PBTI/SOP/53:TP-32- GCMSMS, DOI 11.03.13	2 - 1000 µg/kg
		10.Fenitrothion	PBTI/SOP/53:TP-32- GCMSMS, DOI 11.03.13	10 - 1000 µg/kg
		11.Pirimiphos methyl	PBTI/SOP/53:TP-32- GCMSMS, DOI 11.03.13	10 - 1000 µg/kg
		12.Aldrin	PBTI/SOP/53:TP-32- GCMSMS, DOI 11.03.13	3 - 1000 µg/kg
		13.Malathion	PBTI/SOP/53:TP-32- GCMSMS, DOI 11.03.13	10 - 1000 µg/kg
		14.Fenthion	PBTI/SOP/53:TP-32- GCMSMS, DOI 11.03.13	5 - 1000 µg/kg
		15.Chlorpyrifos	PBTI/SOP/53:TP-32- GCMSMS, DOI 11.03.13	10 - 1000 µg/kg
		16.Chlorfenvinfos	PBTI/SOP/53:TP-32- GCMSMS, DOI 11.03.13	10 - 1000 µg/kg
		17.Phenthoate	PBTI/SOP/53:TP-32- GCMSMS, DOI 11.03.13	10 - 1000 µg/kg
		18.2,4' DDE	PBTI/SOP/53:TP-32- GCMSMS, DOI 11.03.13	2.5 - 1000 µg/kg
		19.Alpha Endosulfan	PBTI/SOP/53:TP-32- GCMSMS, DOI 11.03.13	10 - 1000 µg/kg

Laboratory	Punjab Biotechnology Incubator, Agri & Food Testing Laboratory, SCO:7-8, Top Floor, Phase-V, SAS Nagar, Mohali		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	25.07.2013
Certificate Number	T-1582	Valid Until	24.07.2015
Last Amended on	-	Page	17 of 39

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Liquid Milk	20.Dieldrin	PBTI/SOP/53:TP-32- GCMSMS, DOI 11.03.13	3 - 1000 µg/kg
		21.4,4' DDE	PBTI/SOP/53:TP-32- GCMSMS, DOI 11.03.13	2.5 - 1000 µg/kg
		22.2,4' DDD	PBTI/SOP/53:TP-32- GCMSMS, DOI 11.03.13	2.5 - 1000 µg/kg
		23.Beta Endosulfan	PBTI/SOP/53:TP-32- GCMSMS, DOI 11.03.13	10 - 1000 µg/kg
		24.4,4' DDD	PBTI/SOP/53:TP-32- GCMSMS, DOI 11.03.13	2.5 - 1000 µg/kg
		25.2,4' DDT	PBTI/SOP/53:TP-32- GCMSMS, DOI 11.03.13	2.5 - 1000 µg/kg
		26.Ethion	PBTI/SOP/53:TP-32- GCMSMS, DOI 11.03.13	5 - 1000 µg/kg
		27.Endosulfan sulfate	PBTI/SOP/53:TP-32- GCMSMS, DOI 11.03.13	10 - 1000 µg/kg
		28.4,4' DDT	PBTI/SOP/53:TP-32- GCMSMS, DOI 11.03.13	2.5 - 1000 µg/kg
		29.Methoxychlor	PBTI/SOP/53:TP-32- GCMSMS, DOI 11.03.13	5 - 1000 µg/kg
		30.Cypermethrin	PBTI/SOP/53:TP-32- GCMSMS, DOI 11.03.13	10 - 1000 µg/kg
		31.Fenvalerate	PBTI/SOP/53:TP-32- GCMSMS, DOI 11.03.13	10 - 1000 µg/kg

Laboratory	Punjab Biotechnology Incubator, Agri & Food Testing Laboratory, SCO:7-8, Top Floor, Phase-V, SAS Nagar, Mohali		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	25.07.2013
Certificate Number	T-1582	Valid Until	24.07.2015
Last Amended on	-	Page	18 of 39

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
g.	Cream	Milk Fat	DGHS Lab Manual-1/ AOAC 19 th Ed. (Ch 33)	0.5– 90 %
h.	Dahi IS 9617-1980	Acidity	IS 1479 (Pt. 1):1960	0.01 – 10 %
		Phosphates Test	IS 8479 (Pt. 1):1977	Qualitative Presence/Absence
i.	Paneer IS 10484:1983 (RA 1994)	Moisture	IS 10484:1983 (RA 1994)/ DGHS Lab Manual-1	0.1 – 90 %
		Milk Fat	IS 10484:1983 (RA 1994)/ DGHS Lab Manual-1	0.1 – 70 %
		Titrateable Acidity	IS 10484:1983 (RA 1994)/ DGHS Lab Manual-1	0.01 – 5 %
j.	Natural, Processed, Spread & Soft Cheese IS 2785:1979 (2000)	Moisture	IS 2785:1979 (RA 2000) / DGHS Lab Manual-1	0.1 – 90 %
		Milk Fat	IS 2785:1979 (RA 2000) / DGHS Lab Manual-1	0.1 – 70 %
		Salt	IS 2785:1979 (RA 2000) / DGHS Lab Manual-1	0.5 – 10 %
k.	Butter	Moisture	IS 3508:1966 (RA 2003) / DGHS Lab Manual-1	0.1 – 25 %
		Milk fat	IS 3507:1966 (RA 2003) / DGHS Lab Manual-1	1 – 100 %
		Acidity	IS 3507:1966 (RA 2003) / DGHS Lab Manual-1	0.01 – 5 %

Laboratory	Punjab Biotechnology Incubator, Agri & Food Testing Laboratory, SCO:7-8, Top Floor, Phase-V, SAS Nagar, Mohali		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	25.07.2013
Certificate Number	T-1582	Valid Until	24.07.2015
Last Amended on	-	Page	19 of 39

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Butter	Reichert Meissl Value	IS 3508:1966 (RA 2003) / DGHS Lab Manual-1	1.0 – 10%
		Polenske Value	IS 3508:1966 (RA 2003) / DGHS Lab Manual-1	0.5 – 3.0
		Free Fatty Acid (As Oleic Acid)	IS 13689:1992 (RA 2003)/ IS 3508:1966/ DGHS Lab Manual-1	0.1 – 5 %
		Peroxide Value	IS 13689:1992 (RA 2003)/ DGHS Lab Manual-1	0.5 – 10 $\sqrt{\text{meq/kg}}$
		Salt	IS 3507:1966 (RA 2003)	0.1 – 10 %
		Insoluble impurities	IS 3508:1966 (RA 2003)	0.5 – 5 %
		Saponification Value	IS 3508:1966 (RA 2003) / DGHS Lab Manual-1	10 – 300
		Iodine Value	IS 3508:1966 (RA 2003) / DGHS Lab Manual-1	7 – 250
		Unsaponifiable Matter	IS 3508:1966 (RA 2003) / DGHS Lab Manual-1	0.2 – 10 %
		Baudouin Test	IS 3507:1966 (RA 2003) / DGHS Lab Manual-1	Qualitative Presence/ Absence
		Curd	IS 3507:1966 (RA 2003) / DGHS Lab Manual-1	0.1 – 15 %
		Butyro Refractometer Reading @ 40 deg C	IS 3508:1966 (RA 2003) / DGHS Lab Manual-1	20 - 60

Laboratory	Punjab Biotechnology Incubator, Agri & Food Testing Laboratory, SCO:7-8, Top Floor, Phase-V, SAS Nagar, Mohali		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	25.07.2013
Certificate Number	T-1582	Valid Until	24.07.2015
Last Amended on	-	Page	20 of 39

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Butter	Milk Solids Not Fat	IS 3507:1966 (RA 2003)	0.5 – 60 %
I.	Ghee	Moisture	IS 548 (Pt. 1):1964 (RA 2006)/ IS 3508:1966	0.1 – 5 %
		Free Fatty Acid	IS 548 (Pt. 1):1964 (RA 2006) / DGHS Lab Manual-1/ IS 3508:1966	0.1 – 5 %
		Acid Value	IS 548 (Pt. 1):1964 (RA 2006) / DGHS Lab Manual-1/ IS 3508:1966	0.1 – 5%
		Reichert Meissl Value	IS 548 (Pt. 1):1964 (RA 2006) / DGHS Lab Manual-1	1 – 50%
		Polenske Value	IS 548 (Pt. 1):1964 (RA 2006) / DGHS Lab Manual-1/ IS 3508:1966	0.5 – 3.0
		Butyro Refractometer Reading @ 40 deg C	IS 3508:1966 (RA 2003) / DGHS Lab Manual-1	20 - 60
		Fatty Acid Profiling - Saturated Fatty acid Monounsaturated Fatty Acid Poly Unsaturated Fatty Acid Trans Fat	PBTI/SOP/22/TP-15 DOI : 11.04.11	1-90% 1.-80% 1-70% 1-15%
		Baudouin Test	IS 3507:1966 (RA 2003) / DGHS Lab Manual-1	Qualitative Presence / Absence
m.	Shrikand & Yoghurt	Total Solids	DGHS Lab Manual-1	1 – 80%
		Milk Fat	DGHS Lab Manual-1	1– 60 %

Laboratory	Punjab Biotechnology Incubator, Agri & Food Testing Laboratory, SCO:7-8, Top Floor, Phase-V, SAS Nagar, Mohali		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	25.07.2013
Certificate Number	T-1582	Valid Until	24.07.2015
Last Amended on	-	Page	21 of 39

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Shrikand & Yoghurt	Milk Protein	DGHS Lab Manual-1	5 – 90 %
		Milk Solid not Fat	DGHS Lab Manual-1	0.2 – 90 %
		Titrateable acidity (as Lactic Acid)	DGHS Lab Manual-1	0.01– 5 %
		Sugar (as Sucrose)	DGHS Lab Manual-1	1-80%
		Total Ash	DGHS Lab Manual-1	0.1– 15 %
5.	Tea & Tea products Tea (IS 3633-2003)	Total Ash	IS 3633:2003 / DGHS Lab Manual-4	0.1 - 20%
		Water Soluble Ash (% of Total Ash)	IS 3633:2003 / DGHS Lab Manual-4	0.1- 70 %
		Acid Insoluble ash	IS 3633:2003 / DGHS Lab Manual-4	0.1- 5%
		Water Extract	IS 3633:2003 / DGHS Lab Manual-4	0.1- 60%
		Crude Fibre	IS 3633:2003 / DGHS Lab Manual-4	0.1-40 %
6.	Fruit Juices, Concentrates	pH	IS 2860:1964 (RA 2001)	0-12
		Degree Brix or Total Soluble solids	IS 2860:1964 (RA 2001)	1- 60° brix
a.	Fruit Juices, Concentrates & Squashes (IS 4936:1968)	Acidity	IS 2860:1964 (RA 2001)	0.1-5%
		Vitamin C	IS 5838:1970 (RA 2005)	1– 1000mg/100g

Laboratory	Punjab Biotechnology Incubator, Agri & Food Testing Laboratory, SCO:7-8, Top Floor, Phase-V, SAS Nagar, Mohali		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	25.07.2013
Certificate Number	T-1582	Valid Until	24.07.2015
Last Amended on	-	Page	22 of 39

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
b.	Carbonated Beverages	Moisture	IS 13019:1991 (RA 2003)	1-40%
c.	Non Alcoholic Concentrates Solid & Liquid	Sulphated ash	IS 13019:1991 (RA 2003)	0.02 - 5%
		Acid Insoluble Ash	DGHS Lab Manual-5	0.01-5%
d.	Synthetic Syrups or sharbat	Total Sugars	DGHS Lab Manual-5/ AOAC 19 th Ed	1-90 %
		Total Reducing Sugars	DGHS Lab Manual-5/ AOAC 19 th Ed	1-90%
7.	Sweetening Agent Sugar, Icing Sugar, Misri, Gur, Dextrose, Sacchrine Sodium, Aspartame,etc (As per FSSAI)	Moisture or loss on drying	DGHS Lab Manual-4/ AOAC 19 th Ed	1-80%
		Sucrose	DGHS Lab Manual-4/ AOAC 19 th Ed	1-99%
		Total Reducing Sugars	DGHS Lab Manual-4/ AOAC 19 th Ed	1-99%
		Total Ash or residue on ignition	DGHS Lab Manual-4/ AOAC 19 th Ed	0.01 – 35 %
		Acid Insoluble ash	DGHS Lab Manual-4	0.01 – 5 %
		Sulphated Ash	DGHS Lab Manual-4/ AOAC 19 th Ed	0.01 – 5 %
		Conductivity	DGHS Lab Manual-4/ APHA	1 0 -500mho/cm ²
		Starch	DGHS Lab Manual-4	1-50 %
		Lead	AOAC 19 th ED. (Ch 9)	0.5-5 mg/kg

Laboratory	Punjab Biotechnology Incubator, Agri & Food Testing Laboratory, SCO:7-8, Top Floor, Phase-V, SAS Nagar, Mohali		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	25.07.2013
Certificate Number	T-1582	Valid Until	24.07.2015
Last Amended on	-	Page	23 of 39

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Arsenic	AOAC 19 th ED. (Ch 9)	0.5-5 mg/kg
8.	Honey & Honey Based Products	Specific Gravity	IS 4941:1994 (RA 2002)	0.6 – 2.00
		Moisture	IS 4941:1994 (RA 2002), AOAC 19 th Ed. (Ch 44)	1 – 50 %
		Total Reducing Sugars	IS 4941:1994 (RA 2002), AOAC 19 th Ed. (Ch 44)	1 – 85 %
		Sucrose	IS 4941:1994 (RA 2002), AOAC 19 th Ed. (Ch 44)	1 – 85 %
		Fructose - Glucose Ratio	IS 4941:1994 (RA 2002)	0.5– 2
		Ash	IS 4941:1994 (RA 2002), AOAC 19 th Ed. (Ch 44)	0.1 - 20%
		Acidity	IS 4941:1994 (RA 2002), AOAC 19 th Ed. (Ch 44)	0.05 - 5%
		Fiehe's Test	IS 4941:1994 (RA 2002)	Qualitative Positive/Negative
		Optical Density	IS 4941:1994 (RA 2002)	0.02 – 1.5
		Freedom from Foreign Matter	IS 4941:1994 (RA 2002)	Qualitative Presence/ Absence
		Hydroxy methyl furfural	AOAC 19 th Ed. 980.23	20-200 mg/kg
		Chloremphenicol	PBTI/SOP/41:TP-23 LCMSMS DOI 04.09.12	0.2– 10 µg/kg

Laboratory	Punjab Biotechnology Incubator, Agri & Food Testing Laboratory, SCO:7-8, Top Floor, Phase-V, SAS Nagar, Mohali		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	25.07.2013
Certificate Number	T-1582	Valid Until	24.07.2015
Last Amended on	-	Page	24 of 39

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Honey & Honey Based Products	Tetracycline	PBTI/SOP/51:TP-30 LCMSMS DOI 11.03.13	5– 50 µg/kg
		Oxytetracycline		5– 50 µg/kg
		Chlortetracycline		5– 50 µg/kg
		Deoxytetracycline		5– 50 µg/kg
		Lead	IS 1699:1995 (RA 2001), AOAC 19 th Ed. 999.10/ PBTI/SOP/49:TP-28 ICPMS DOI 11.02.13	0.025-5 mg/kg
		Cadmium		0.025-5 mg/kg
		Arsenic		0.025-5 mg/kg
		Mercury		0.025-5 mg/kg
9.	Infant Foods (IS 14433:2007) ,	Moisture	IS 16072 : 2012/ DGHS Lab Manual-1	0.1 - 40%
	Milk cereal based complementary food (IS 1656 : 2007),	Total Ash	IS 14433:2007/ DGHS Lab Manual-1	0.1 - 15%
		Acid Insoluble Ash	IS 14433:2007/ DGHS Lab Manual-1	0.02 - 5%
	Processed Cereal based Complementary Food (IS 11536 : 2007),	Fat	IS 11721:2005/ IS 1656 : 2007 / DGHS Lab Manual-1	0.1 - 40%
	Follow-Up- Formula-Complementary Foods (IS 15757:2007)	Total Protein	IS 7219:1973 (RA 2005), AOAC 19 th Ed. 976.06/ DGHS Lab Manual-1	0.1 - 40%
		Carbohydrates	IS 1656 : 2007/ DGHS Lab Manual-1	1 -95%

Laboratory	Punjab Biotechnology Incubator, Agri & Food Testing Laboratory, SCO:7-8, Top Floor, Phase-V, SAS Nagar, Mohali		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	25.07.2013
Certificate Number	T-1582	Valid Until	24.07.2015
Last Amended on	-	Page	25 of 39

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Infant Foods (IS 14433:2007) ,	Vitamin A	IS 5886 : 1970 (RA 2005)	1 – 5 mg/kg (2.907 – 14.535 IU/kg)
	Milk cereal based complementary food (IS 1656 : 2007),	Vitamin C	IS 5838:1970 (RA 2005)	1 - 1000mg/100g
		Added Vitamin D	PBTI/SOP/11/TP-05 HPLC DOI : 05.03.10	3 - 30µg/100gm (120-1200 IU/100g)
	Processed Cereal based Complementary Food (IS 11536 : 2007),	Crude fibre	IS 10226 (Pt.1):1982 (RA 2005) / DGHS MANUAL / AOAC 19 th ed.	1-40%
	Follow-Up- Formula-Complementary Foods (IS 15757:2007)	Total Aflatoxin (G1,G2,B1,B2)	AOAC 19 th Ed. 990.33 (Ch 49)	15 – 100 µg/kg
		Solubility Index	IS 12759// DGHS Lab Manual-1	0.1– 2.0 ml
		Chloride	IS 11763/ AOAC 19 th Ed./ DGHS Lab Manual-1	50 –1000mg/100gm
		Iron	IS 1699: 1995/ AOAC 999.10/ AOAC 999.11/ PBTI/SOP/54:TP-33 ICPMS DOI 25.05.13	1-50 mg/100gm
		Magnesium	IS 12760/ IS 1699: 1995/ AOAC 999.10/ AOAC 999.11/ PBTI/SOP/54:TP-33 ICPMS DOI 25.05.13	1-500 mg/100gm
	Phosphorous	IS 12756/ IS 1699: 1995/ AOAC 999.10/ AOAC 999.11/ PBTI/SOP/54:TP-33 ICPMS DOI 25.05.13	1-500 mg/100gm	

Laboratory	Punjab Biotechnology Incubator, Agri & Food Testing Laboratory, SCO:7-8, Top Floor, Phase-V, SAS Nagar, Mohali		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	25.07.2013
Certificate Number	T-1582	Valid Until	24.07.2015
Last Amended on	-	Page	26 of 39

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Infant Foods (IS 14433:2007) ,	Iodine	IS 7224/ AOAC 19 th Ed. / PBTI/SOP/54:TP-33 ICPMS DOI 25.05.13	10 - 100µg/100gm
	Milk cereal based complementary food (IS 1656 : 2007),	Copper	IS 1699: 1995/ AOAC 999.10/AOAC 999.11/ PBTI/SOP/54:TP-33 ICPMS DOI 25.05.13	50 -1000 µg/100gm
	Processed Cereal based Complementary Food (IS 11536 : 2007),	Zinc	IS 1699: 1995/ AOAC 999.10/AOAC 999.11/ PBTI/SOP/54:TP-33 ICPMS DOI 25.05.13	1-50 mg/100gm
	Follow-Up- Formula- Complementary Foods (IS 15757:2007)	Manganese	IS 1699: 1995/ AOAC 999.10/ AOAC 999.11/ PBTI/SOP/54:TP-33 ICPMS DOI 25.05.13	10 – 100 µg/100gm
		Selenium	IS 1699: 1995/AOAC 999.10/ AOAC 999.11/ PBTI/SOP/54:TP-33 ICPMS DOI 25.05.13	5 – 100 µg/100gm
		Potassium	IS 12760/ AOAC 999.10/ AOAC 999.11/ PBTI/SOP/54:TP-33 ICPMS DOI 25.05.13	1-500 mg/100gm
		Sodium	PBTI/SOP/54:TP-33 ICPMS DOI 25.05.13	1-500 mg/100gm
		Calcium	IS 12760/ IS 5949/ AOAC 999.10/ AOAC 999.11/ PBTI/SOP/54:TP-33 ICPMS DOI 25.05.13	1-500 mg/100gm

Laboratory	Punjab Biotechnology Incubator, Agri & Food Testing Laboratory, SCO:7-8, Top Floor, Phase-V, SAS Nagar, Mohali		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	25.07.2013
Certificate Number	T-1582	Valid Until	24.07.2015
Last Amended on	-	Page	27 of 39

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Infant Foods (IS 14433:2007) ,	Lead	IS 1699:1995 (RA 2001), AOAC 19th Ed. 999.10/ PBTI/SOP/54:TP-33 ICPMS DOI 25.05.13	0.05-5 mg/kg
	Milk cereal based complementary food (IS 1656 : 2007),	Tin	IS 1699:1995 (RA 2001), AOAC 19th Ed. 999.10/ PBTI/SOP/54:TP-33 ICPMS DOI 25.05.13	0.05-5 mg/kg
	Processed Cereal based Complementary Food (IS 11536 : 2007),	Cadmium	IS 1699:1995 (RA 2001), AOAC 19th Ed. 999.10/ PBTI/SOP/54:TP-33 ICPMS DOI 25.05.13	0.05-5 mg/kg
	Follow-Up- Formula-Complementary Foods (IS 15757:2007)	Arsenic	IS 1699:1995 (RA 2001), AOAC 19th Ed. 986.15/ PBTI/SOP/54:TP-33 ICPMS DOI 25.05.13	0.05-5 mg/kg
10.	Fruits & Vegetables and their products	Benzoic Acid	IS 3501-1966 (RA 2001) / DGHS Lab Manual-5	50 – 1000 mg/L
a.	Puree, Paste, Pulp, Ketchup, Sauce, chutney and Canned Foods (As per FSSAI)	Total soluble solids	IS 2860:1964 (RA 2001) / DGHS Lab Manual-5	1.0- 40°Brix
		Specific Gravity	IS 2860:1964 (RA 2001) / DGHS Lab Manual-5	0.5 – 1.0
		Acidity	IS 2860:1964 (RA 2001) / DGHS Lab Manual-5	0.01 -3%
		Sulphur dioxide	PBTI/SOP/17:TP-10 DOI : 22.02.11/ DGHS Lab Manual-5	10 - 1000mg/kg

Laboratory	Punjab Biotechnology Incubator, Agri & Food Testing Laboratory, SCO:7-8, Top Floor, Phase-V, SAS Nagar, Mohali		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	25.07.2013
Certificate Number	T-1582	Valid Until	24.07.2015
Last Amended on	-	Page	28 of 39

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		pH	DGHS Lab Manual-5/ AOAC 19 th Ed. / IS 2860	1-12
		Acid Insoluble Ash	DGHS Lab Manual-5/ AOAC 19 th ed.	0.01-5 %
		Salt	DGHS Lab Manual-5/ AOAC 19 th Ed./ IS 2860	0.5-30 %
b.	Pickles, Jams Jellies, Murabba, Marmalades	Preservatives (Benzoic Acid)	IS 3501-1966 (RA 2001)	50 – 1000 mg/L
		Acidity	IS 3501:1966 (RA 2001)	0.01-10%
		Sodium chloride	IS 2860-1964 (RA 2001)	0.1-25 %
		Total soluble solids	IS 2860:1964 (RA 2001) / DGHS Lab Manual-5	1.0- 90°Brix
		Peel in suspension	DGHS Lab Manual-5	2-25 %
c.	Thermally processed Fruits & vegetables & their Products	Fat	PBTI/SOP/18/TP-11 DOI : 22.02.11	1 - 50%
		Drained weight	DGHS Lab Manual-5	25 -80 %
		TSS	DGHS Lab Manual-5	1.0-40 %
		Acidity	DGHS Lab Manual-5	1- 10 %
d.	Candied, Crytallized and Glazed fruit/ Vegetable/ rhizome/ fruit peel	Total Sugars	DGHS Lab Manual-5	1-99%
		Reducing Sugar		1-99%

Laboratory	Punjab Biotechnology Incubator, Agri & Food Testing Laboratory, SCO:7-8, Top Floor, Phase-V, SAS Nagar, Mohali		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	25.07.2013
Certificate Number	T-1582	Valid Until	24.07.2015
Last Amended on	-	Page	29 of 39

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
e.	Dehydrated Fruits & Vegetables	Moisture	DGHS Lab Manual-5/ AOAC 19 th Ed.	1-50 %
		Sulphur dioxide	PBTI/SOP/17:TP-10 DOI : 22.02.11 DGHS Lab Manual-5	10-1000mg/kg
		Total Ash	DGHS Lab Manual-5/ AOAC 19 th Ed.	0.01-20 %
		Acid Insoluble Ash	DGHS Lab Manual-5/ AOAC 19 th Ed.	0.01-5 %
		Peroxidase Test	DGHS Lab Manual-5/ AOAC 19 th Ed.	Qualitative Presence/Absence
11.	Spices and Condiments	Moisture	IS 1797:1985 (RA 2001)	1 - 40%
		Total Ash	IS 1797:1985 (RA 2001)	0.1 -10%
		Acid Insoluble Ash	IS 1797:1985 (RA 2001)	0.1 -5%
		Water soluble ash	IS 1797:1985 (RA 2001)	0.1 -80%
		Alcohol soluble extract	IS 1797:1985 (RA 2001)	0.1 - 50%
		Cold water soluble extract	IS 1797:1985 (RA 2001)	0.1 - 10%
		Volatile Oil	IS 1797:1985 (RA 2001)	1-10%
		Non-Volatile Ether Extract	IS 1797:1985 (RA 2001)	1 - 25%
		Crude fibre	IS 1797:1985 (RA 2001)/ DGHS MANUAL/ AOAC 19 th Ed. (Ch 43)	1 - 40%

Laboratory	Punjab Biotechnology Incubator, Agri & Food Testing Laboratory, SCO:7-8, Top Floor, Phase-V, SAS Nagar, Mohali		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	25.07.2013
Certificate Number	T-1582	Valid Until	24.07.2015
Last Amended on	-	Page	30 of 39

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Spices and Condiments	Salt	IS 1797:1985 (RA 2001)	0.2 - 10%
		Starch	IS 4706 (Pt. 2):1978 (RA 2005)	0.5 - 70%
		Chromium Salts	IS 1797:1985 (RA 2001)	Qualitative Presence/Absence
		Lead	IS 1699:1995 (RA 2001), AOAC 19 th Ed. 999.10	0.5-5 mg/kg
		Extraneous Matter & other Refractions	DGHS Lab Manual-10/ Physical/FSSA	0.05-10 %
		Total Nitrogen	DGHS Lab Manual-10	0.5-90 %
		Curcuminoid content	DGHS Lab Manual-10	0.5-20 %
		Peroxidase Test	DGHS Lab Manual-10	Qualitative Presence/Absence
12.	Salt	Moisture	IS 7224:2006 (RA 2006)	0.1-20 %
a.	Iodized Salt, Vacuum Evaporated Iodized Salt and Refined Iodized Salt IS 7224-2006 RA 2006	Particle Size	IS 7224: 2006 (RA 2006)	1-100%
		Water Insoluble matter	IS 7224: 2006 (RA 2006)	0.01% - 5%
		Chloride content (as NaCl)	IS 7224: 2006 (RA 2006)	1 - 99%
		Matter soluble in water other than Sodium chloride	IS 7224: 2006 (RA 2006)	0.01 - 2%
		Iodine content	IS 7224: 2006 (RA 2006)	1 - 50 mg/kg
		Calcium (as Ca)	IS 7224: 2006 (RA 2006)	0.01 - 2%
		Magnesium (as Mg)	IS 7224: 2006 (RA 2006)	0.01 - 1%

Laboratory	Punjab Biotechnology Incubator, Agri & Food Testing Laboratory, SCO:7-8, Top Floor, Phase-V, SAS Nagar, Mohali		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	25.07.2013
Certificate Number	T-1582	Valid Until	24.07.2015
Last Amended on	-	Page	31 of 39

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Salt Iodized Salt, Vacuum Evaporated Iodized Salt and Refined Iodized Salt IS 7224-2006 RA 2006	Sulphates (as SO ₄)	IS 7224: 2006 (RA 2006)	0.2 - 2%
		Alkalinity (as Na ₂ CO ₃)	IS 7224: 2006 (RA 2006)	0.05 - 2%
		Lead	IS 7224: 2006 (RA 2006)	1-20 mg/kg
		Arsenic	IS 7224: 2006 (RA 2006)	0.5 -20 mg/kg
		Iron	IS 7224: 2006 (RA 2006)	25-100 mg/kg
		Phosphorous (as PO ₄)	FCO 1985	500-5000 mg/kg
		pH value in 5 % aqueous solution	FCO 1985	1-12
b.	Edible Common Salt (IS 253-1985)	Moisture	IS 253:1985 (RA 2004)	0.1 - 20%
		Particle Size	IS 460	1-100%
		Water Insoluble matter	IS 253:1985 (RA 2004)	0.01 - 5%
		Chloride content (as NaCl)	IS 253:1985 (RA 2004)	1 -99%
		Acid insoluble matter	IS 253:1985 (RA 2004)	0.02 - 2%
		Matter soluble in water other than Sodium chloride	IS 253:1985 (RA 2004)	0.01- 2%
		Calcium (as Ca)	IS 253:1985 (RA 2004)	0.01 - 2%
		Magnesium (as Mg)	IS 253:1985 (RA 2004)	0.01 - 1%
		Sulphates (as SO ₄)	IS 253:1985 (RA 2004)	0.2 - 2%
		Alkalinity (as Na ₂ CO ₃)	IS 253:1985 (RA 2004)	0.05 - 2 %

Laboratory	Punjab Biotechnology Incubator, Agri & Food Testing Laboratory, SCO:7-8, Top Floor, Phase-V, SAS Nagar, Mohali		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	25.07.2013
Certificate Number	T-1582	Valid Until	24.07.2015
Last Amended on	-	Page	32 of 39

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Edible Common Salt (IS 253-1985)	Lead	IS 253:1985 (RA 2004)	1-20 mg/kg
		Arsenic	IS 253:1985 (RA 2004)	0.5 -20 mg/kg
		Iron	IS 253:1985 (RA 2004)	25-100 mg/kg
		Copper	IS 253:1985 (RA 2004)	1-20 mg/kg
13. a.	Oils & Fats	Moisture	IS 548 (Pt. 1):1964 (RA 2006)	0.01 - 20%
		Specific Gravity	IS 548 (Pt. 1):1964 (RA 2006)/ AOAC 19 th Ed. (Ch 41)	0.5 – 2.0
		Free Fatty Acids	IS 548 (Pt. 1):1964 (RA 2006)/ AOAC 19 th Ed. (Ch 41)	0.01-5%
		Iodine Value	IS 548 (Pt. 1):1964 (RA 2006)/ AOAC 19 th Ed. (Ch 41)	7 - 250
		Saponification Value	IS 548 (Pt. 1):1964 (RA 2006)/ AOAC 19 th Ed. (Ch 41)	10 - 300
		Unsaponifiable Matter	IS 548 (Pt. 1):1964 (RA 2006)/ AOAC 19 th Ed. (Ch 41)	0.2 - 10%
		Baudouin Test (Sesame Oil)	AOAC 19 th Ed. (Ch 41) / IS 548 (Pt. 2):1976 (RA 2006)/ DGHS Lab manual-2	Qualitative Presence/Absence
		Holde Test (Mineral Oil)	AOAC 19 th Ed. (Ch 41) / IS 548 (Pt. 2):1976 (RA 2006)/ DGHS Lab manual-2	Qualitative Presence/Absence

Laboratory	Punjab Biotechnology Incubator, Agri & Food Testing Laboratory, SCO:7-8, Top Floor, Phase-V, SAS Nagar, Mohali		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	25.07.2013
Certificate Number	T-1582	Valid Until	24.07.2015
Last Amended on	-	Page	33 of 39

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Oils & Fats	Nickel	AOAC 19 th Ed. 990.05/ PBTI/SOP/56:TP 35 ICPMS DOI : 04.06.13	0.1-50 mg/kg
		Iron	AOAC 19 th Ed. 990.05/ PBTI/SOP/56:TP 35 ICPMS DOI : 04.06.13	0.1-50 mg/kg
		Lead	AOAC 19 th Ed. 994.02/ PBTI/SOP/56:TP 35 ICPMS DOI : 04.06.13	0.1-50 mg/kg
		Copper	AOAC 19 th Ed. 990.05/ PBTI/SOP/56:TP 35 ICPMS DOI : 04.06.13	0.1-50 mg/kg
		Butyro-refractometer reading @ 40° C or Refractive index @ 40°C	IS 548 (Pt. 1):1964 (RA 2006)/ DGHS manual	30.0-90.0 1.3000 -1.7000
		Acid value	IS 548 (Pt. 1):1964 (RA 2006)	0.1-30
		Polenske Value	IS 548 (Pt. 1):1964 (RA 2006)/ DGHS Lab manual-2	0.5 -50
		Peroxide value	IS 548 (Pt. 1):1964 (RA 2006)/ DGHS Lab manual-2	0.5 – 10 √meq
		Colour	IS 548 (Pt. 1):1964 (RA 2006)/ DGHS Lab manual-2	1-100units
		Arsenic	AOAC 19 th Ed. 994.02/ PBTI/SOP/56:TP 35 ICPMS DOI : 04.06.13	0.1-50 mg/kg

Laboratory	Punjab Biotechnology Incubator, Agri & Food Testing Laboratory, SCO:7-8, Top Floor, Phase-V, SAS Nagar, Mohali		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	25.07.2013
Certificate Number	T-1582	Valid Until	24.07.2015
Last Amended on	-	Page	34 of 39

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Oils & Fats	Cadmium	AOAC 19 th Ed. 994.02/ PBTI/SOP/56:TP 35 ICPMS DOI : 04.06.13	0.1-10 mg/kg
		Mercury	AOAC 19 th Ed. 994.02/ PBTI/SOP/56:TP 35 ICPMS DOI : 04.06.13	0.1-50 mg/kg
		Castor oil adulteration	IS 548 (Pt. 2):1976 (RA 2006)	Qualitative Presence/Absence
		Argemone Oil	IS 548 (Pt. 2):1976 (RA 2006)/ DGHS Lab manual-2	Qualitative Presence/Absence
		Bellier Turbidity Test	IS 548 (Pt. 2):1976 (RA 2006)/ DGHS Lab manual-2	Qualitative Presence/Absence
		Hydrocyanic Acid	IS 548 (Pt. 2):1976 (RA 2006)/ DGHS Lab manual-2	Qualitative Presence/Absence
		Hexabromide test	IS 548 (Pt. 2):1976 (RA 2006)/ DGHS Lab manual-2	Qualitative Presence/Absence
		Polybromide test	IS 548 (Pt. 2):1976 (RA 2006)/ DGHS Lab manual-2	Qualitative Presence/Absence
		Semi-Siccative oil Test	DGHS Lab manual-2	Qualitative Presence/Absence
		Cotton seed oil	IS 548 (Pt. 2):1976 (RA 2006)/ DGHS Lab manual-2	Qualitative Presence/Absence
		Teaseed oil Test	IS 548 (Pt. 2):1976 (RA 2006)/ DGHS Lab manual-2	Qualitative Presence/Absence

Laboratory	Punjab Biotechnology Incubator, Agri & Food Testing Laboratory, SCO:7-8, Top Floor, Phase-V, SAS Nagar, Mohali		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	25.07.2013
Certificate Number	T-1582	Valid Until	24.07.2015
Last Amended on	-	Page	35 of 39

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Oils & Fats	Phosphorous	DGHS Lab manual-2	50-500 mg/kg
		Flash point	IS 548 / DGHS Lab manual-2	25-250°C
		Melting point	IS 548 / DGHS Lab manual-2	25-50°C
		Cloud Point	DGHS Lab manual-2	5-30°C
		Oryzanol Content	CODEX STAN 210 -1994 pg 8	0.1-10 %
		Vitamin A	PBTI/SOP/10:TP 04 HPLC DOI : 05.03.10	1-70 mg/kg 2.907 – 203.49 IU/kg
		Fatty Acid Profiling - Saturated Fatty acid Monounsaturated Fatty Acid Poly Unsaturated Fatty Acid Trans Fat	PBTI/SOP/22/TP-15 DOI : 11.04.11	1-90% 1-80% 1-70% 1-15%
b.	Margarine and Fat Spreads	Moisture	DGHS Lab manual-2	0.1 - 40%
		Fat	DGHS Lab manual-2	0.1 – 99.9%
		Salt	IS 3507:1966 (RA 2003)/ DGHS Lab manual-2	0.1 – 10 %
		Melting Point	DGHS manual	25-50°C
		Unsaponifiable Matter	IS 548 (Pt. 1):1964 (RA 2006)/ AOAC 19 th Ed. (Ch 41)/ DGHS Lab manual-2	0.2 - 10%
		Acid value	IS 548 (Pt. 1):1964 (RA 2006)/ DGHS Lab manual-2	0.1-10

Laboratory	Punjab Biotechnology Incubator, Agri & Food Testing Laboratory, SCO:7-8, Top Floor, Phase-V, SAS Nagar, Mohali		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	25.07.2013
Certificate Number	T-1582	Valid Until	24.07.2015
Last Amended on	-	Page	36 of 39

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Margarine and Fat Spreads	Free Fatty Acids	IS 548 (Pt. 1):1964 (RA 2006)/ AOAC 19 th Ed. Ch 41) DGHS Lab manual-2	0.1-5%
		Argemone Oil	IS 548 (Pt. 2):1976 (RA 2006)/ DGHS Lab Manual-2	Presence / Absence
		Vitamin A	PBTI/SOP/10:TP 04 HPLC DOI : 05.03.10	1-70 mg/kg (2.907 – 203.49 IU/kg)
		Residual Nickel	AOAC 19 th Ed. 990.05/ DGHS Lab manual-2	0.01-50 mg/L
14.	Ready to Eat (RTE) and Ready to Cook (RTC) Foods	Lead	IS 1699:1995 (RA 2001), AOAC 19 th Ed. 999.10/ PBTI/SOP/54:TP 33 ICPMS DOI : 02.05.13	0.5-5 mg/kg
		Selenium	AOAC 19 th Ed. 986.15/ PBTI/SOP/54:TP 33 ICPMS DOI : 02.05.13	0.1-5 mg/kg
		Cadmium	IS 1699:1995 (RA 2001), AOAC 19 th Ed. 999.10 / PBTI/SOP/54:TP 33 ICPMS DOI : 02.05.13	0.2-5 mg/kg
		Arsenic	IS 1699:1995 (RA 2001), AOAC 19 th Ed. 986.15/ PBTI/SOP/54:TP 33 ICPMS DOI : 02.05.13	0.1-5 mg/kg

Laboratory	Punjab Biotechnology Incubator, Agri & Food Testing Laboratory, SCO:7-8, Top Floor, Phase-V, SAS Nagar, Mohali		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	25.07.2013
Certificate Number	T-1582	Valid Until	24.07.2015
Last Amended on	-	Page	37 of 39

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Ready to Eat (RTE) and Ready to Cook (RTC) Foods	Tin	IS 1699:1995 (RA 2001), AOAC 19 th Ed. 985.16/ PBTI/SOP/54:TP 33 ICPMS DOI : 02.05.13	1-500 mg/kg
		Mercury	IS 1699:1995 (RA 2001), AOAC 19 th Ed. 971.21/ PBTI/SOP/54:TP 33 ICPMS DOI : 02.05.13	0.1-50 mg/kg
		Zinc	IS 1699:1995 (RA 2001), AOAC 19 th Ed. 999.10/ PBTI/SOP/54:TP 33 ICPMS DOI : 02.05.13	0.1-50 mg/kg
		Copper	IS 1699:1995 (RA 2001), AOAC 19 th Ed. 999.10/ PBTI/SOP/54:TP 33 ICPMS DOI : 02.05.13	0.1-50 mg/kg
		Protein	IS 7219:1973 (RA 2005)/ AOAC 19 th Ed. 976.06	1 - 80%
		Ash	PBTI/SOP/18/TP-11 DOI : 22.02.11	0.1-10%
		Energy / Total Calories	PBTI/SOP/18/TP-11 DOI : 22.02.11	1-900 kcal/100g
		Calories from Fat	PBTI/SOP/18/TP-11 DOI : 22.02.11	1-900 kcal/100g
		Carbohydrates	PBTI/SOP/18/TP-11 DOI : 22.02.11	1-100 %

Laboratory	Punjab Biotechnology Incubator, Agri & Food Testing Laboratory, SCO:7-8, Top Floor, Phase-V, SAS Nagar, Mohali		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	25.07.2013
Certificate Number	T-1582	Valid Until	24.07.2015
Last Amended on	-	Page	38 of 39

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Ready to Eat (RTE) and Ready to Cook (RTC) Foods	Sugar	PBTI/SOP/16/TP-09 DOI : 22.02.11 /AOAC 923.09	1-80%
		Dietary Fibre	AOAC 19 th Ed.985.29	1-30%
		Crude Fibre	IS 1155:1968 (RA 2005) DGHS MANUAL/ AOAC 19 th Ed.	1-25%
		Vitamin C	IS 5838:1970 (RA 2005)	1 -1000 mg/100g
		Iron	IS 1699:1995 (RA 2001), AOAC 19 th Ed. 999.10	0.02 – 10 mg/kg
		Fatty Acid Profiling - Saturated Fatty acid Monounsaturated Fatty Acid Poly Unsaturated Fatty Acid Trans Fat	PBTI/SOP/22/TP-15 DOI : 11.04.11	1-90% 1.-80% 1-70% 1-15%
15	Curried Vegetables, Red Chilli, Pickles, Sauces etc	Sudan Dyes (I) Sudan Dyes (II) Sudan Dyes (III) Sudan Dyes (IV)	PBTI/SOP/38/TP-21- LCMSMS DOI : 16.08.12	5 – 1000 µg/kg
16	Other Food Products & Ingredients			
a.	Silver Leaf (Chandi-ka-warq)	Silver	DGHS Lab manual-8 AOAC 19 th Ed.	1-100 %
b.	Pan Masala	Total ash	DGHS Lab manual-3	0.1-20 %
		Ash insoluble in dilute hydrochloric acid	DGHS Lab manual-3	0.01- 5 %

Laboratory Punjab Biotechnology Incubator, Agri & Food Testing Laboratory,
SCO:7-8, Top Floor, Phase-V, SAS Nagar, Mohali

Accreditation Standard ISO/IEC 17025: 2005

Discipline Chemical Testing **Issue Date** 25.07.2013

Certificate Number T-1582 **Valid Until** 24.07.2015

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

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
c.	Cocoa Powder	Total ash	DGHS Lab manual-4 / AOAC 19 th Ed	0.1-20 %
		Moisture	DGHS Lab manual-4 / AOAC 19 th Ed	0.1-50 %
		Ash insoluble in dilute hydrochloric acid	DGHS Lab manual-4 / AOAC 19 th Ed	0.01- 5 %
		Alkalinity of total ash	DGHS Lab manual-4 / AOAC 19 th Ed	0.1 -20%
		Fat	DGHS Lab manual-4 / AOAC 19 th Ed	1-80%

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