

Laboratory	Central Food Laboratory, Department of Food Technology and Quality Control, Babar Mahal, Kathmandu, Nepal		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	12.09.2014
Certificate Number	T-2323	Valid Until	11.09.2016
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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.	Oils & Fats	Free fatty acids Refractive Index Acid value Peroxide value	AOAC 19 th Edn: 2012: 940.28 AOAC 19 th Edn: 2012: 921.08 AOAC 19 th Edn: 2012: 940.28 AOAC 19 th Edn: 2012: 965.33	0.1 to 5% 1.300 to 1.5500 0.2 to 10 mg KOH/g 1.0 to 20
2.	Processed Fruits & Vegetables	Soluble Solids Content Acidity	IS: 13815: 2009 AOAC 19 th Edn: 2012: 942.15	1 to 85° Brix 0.1 to 10.0 %
3.	Spices & Condiments	Volatile Oils	AOAC 19 th Edn: 2012:962.15	0.5 to 20 %
4.	Tea & Coffee	Total ash Water extract	IS: 13854:1994 IS: 13862: 1999	1 to 15 % 5 to 60 %
5.	Cereals & Cereals Products	Moisture Protein	AOAC 19 th Edn: 2012: 925.10 AOAC 19 th Edn: 2012: 950.36, 920.87	1 to 20 % 1 to 50 %
6.	Extracted Honey	Moisture Acidity as formic acid	Annex B of IS 4941: 1994 Annex E of IS 4941: 1994	0.1 to 40 % 0.05 to 2 %
7.	Raw & Pasteurized Milk	Fat content	IS 1224 (Part II): 1977, RA 2008	1 to 50 %
	Milk Powder	Moisture Protein Ash content Fat	DGHS Manual 1 Method: 9.1.1 AOAC 19 th Edn: 991.20 DGHS Manual 1 Method: 9.6.0 DGHS Manual 1 Method: 1.7.1	0.1 to 15 % 3.0 to 40 % 3.0 to 20 % 0.5 to 30%

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II. WATER				
1.	Processed Water	pH	AOAC 19 th Edn: 2012: 973.41	1 to 12
		Hardness	AOAC 19 th Edn: 2012: 973.52	5 to 5000 mg/L
		Alkalinity	IS 3025 (Part 23): 1988 RA 2009	10 to 2000 mg/l
		Chloride content	IS 3025 (Part 32): 1988	5 to 500 mg/l
		Metals By AAS		
		- Calcium	AOAC 19 th Edn: 2012: 974.27	0.2 to 100 mg/ l
		- Copper	AOAC 19 th Edn: 2012: 974.27	0.1 to 100 mg/
		- Iron	AOAC 19 th Edn: 2012: 974.27	0.5 to 100 mg/ l
		- Magnesium	AOAC 19 th Edn: 2012: 974.27	0.2 to 100 mg/ l
		- Zinc	AOAC 19 th Edn: 2012: 974.27	1 to 10 mg/l

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