

	<b>ACCREDITATION DOCUMENT</b>	<b>F-06/02</b> <b>Issue Date: 26/05/08</b> <b>Rev. No: 05</b> <b>LAB 003</b>
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### Testing Laboratory.

Accreditation Scope of Qarshi Research International (Pvt) Ltd. Hattar, Pakistan

Permanent laboratory premises

Materials/ Products tested	Type of Tests/ Properties measurement	Rang of Measurement	Minimum Detection Limit	Uncertainty of Measurement (where applicable) MU (±)	Standard Specification/ Techniques/ Equipment used
-Natural Health Supplement (1) -Food & Farm Product(2)	Aerobic Plate Counts	≥ 10 cfu / ml	≥ 10 cfu / ml	Not applicable	HPB Method MFHPB-18 October 2001 (Health Products and Food Branch Ottawa, Canada)
-Natural Health Supplement (1) -Food & Farm Product(2)	Yeast & Mould Counts	≥ 100 cfu / ml	≥ 100 cfu / ml	Not applicable	HPB Method MFHPB-22 March 2002 (Health Products and Food Branch Ottawa, Canada)
	Presence/Absence of <i>Salmonella</i>	Presence /Absence	Single viable organism in 25 g/ 25 ml of analytical unit	Not applicable	USP 28 <61> 2005
	Presence/Absence of <i>E-coli</i>	Presence /Absence	Single viable organism in 25 g/ 25 ml of analytical unit	Not applicable	USP 28 <61> 2005
Soft drink, Water, Fruit Juices	Total Viable Plate Counts	≥ 1 cfu / ml	≥ 1 cfu / ml	Not applicable	HPB Method MFHPB-18 October 2001 (Health Products and Food branch Ottawa, Canada)
	Total Coliform	1.8-1600	≥ 1.8 MPN / 100 ml	Not applicable	Official Method MFO-9 November 30, 1981 (Health Products and Food Branch Ottawa, Canada)
Water	Heterotrophic Colony Count 35 – 37 °C	≥ 1 cfu / ml	≥ 1 cfu / ml	Not applicable	HPB Method MFHPB-18 October 2001 (Health Products and Food branch Ottawa Canada)
	Heterotrophic Colony Count 20 – 22 °C	≥ 1 cfu / ml	≥ 10 cfu / ml	Not applicable	

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Water	Yeast & mould Counts	≥ 10 cfu / ml	≥ 10 cfu / ml	Not applicable	HPB Method MFHPB-22, March 2002 (Health Products and Food branch Ottawa, Canada)
- Natural Health Supplements (1) - Food & Farm Products (2) - Pharmaceuticals Articles (3)	Presence/Absence of <i>Staphylococcus aureus</i>	Presence /Absence	Single viable organism in 25 g/ 25 ml of analytical unit	Not applicable	USP <61> (USP-28), 2005
	Presence/ Absence of <i>Pseudomonas aeruginosa</i>	Presence /Absence	Single viable organism in 25 g/ 25 ml of analytical unit	Not applicable	USP <61> (USP-28), 2005
Water	Presence/ Absence of <i>Staphylococcus aureus</i>	Presence /Absence	Single Viable organism in 25 g /25 ml of Analytical unit	Not applicable	USP-28 <61>2005
	Presence/ Absence of <i>Pseudomonas aeruginosa</i>	Presence /Absence	Single Viable organism in 25g / 25 ml of analytical unit	Not applicable	USP-28 <61>2005
Food	Coliforms	≥10 /g	10 /g	Not applicable	VRB method Oxoid/ Merck Pour Plate SME
Water	Coliforms/ E.coli	≥01 / 100ml	01 /100mL	Not applicable	Chromogenic Method Filtration Assembly SME
Natural Health Supplements (1) - Food & Farm Products (2) - Pharmaceutical Articles (3)	Ph measurement	2.00-11.00	2.00	0.06	Method based on SW- 846, SW-846 & Method C-13 (ASTM).
	Brix / Refractive Index	10.0-90.0	RI=1.33 Brix = 10.0	0.4	USP 25 <831> RI Method page 2071
	Polarity	Z <sup>0</sup> 12.5-130	Z <sup>0</sup> =12.5	0.22	Polarimeter
Concentrated Medicinal/ Refreshing Syrups	Specific Gravity	1.00-1.50	1.0	0.04	USP 25 <841> Sp Gr Method page 2071
- Natural Health Supplements (1) - Papers	LOD (Loss on Drying)	At max 160 °C 2 gm - 5 gm	2 g	0.39 g	USP 25 published method (< 731> Loss on Drying) page # 2028

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- Natural Health - Supplements (1)	Disintegration Time	≥ 1 min at 37 °C,	1 min	1.0 min	USP 25 <701> page 2010
	Wt. Per Tablets	150 mg -700 mg	100 mg	0.20 mg	USP 25 <1251> weighing on analytical balance
Solid dosage forms (Tablets)	Tablet friability	≥ 100 mg	100 mg	0.11 mg	USP 25 <1216> Page # 2255
	Tablet hardness	≥ 8 N	8 N	0.12 N	Method based on equipment manual
PET Bottles, Glass bottles	Brimful Capacity	≥ 50 ml	Minimum 50 ml	0.62 ml	Density Method
Labels/ Paper	Paper Grammage	≥ 80 mg/m <sup>2</sup>	80 mg / m <sup>2</sup>	0.23 mg / m <sup>2</sup>	D 646-96 (2001) Std. TM for Grammage of paper
- Natural Health Supplements (1) - Food & Farm Products (2) - Pharmaceutical Articles (3) - Water & Waste waters etc.	Elemental Analysis Ca	≥ 0.5 mg/L	0.5 mg/L	0.12 ppm	FAAS
	Elemental Analysis Ni, Pb, Fe, Cu,	≥ 0.5 mg/L	0.5 mg/L	0.12 ppm	FAAS
	Elemental Analysis Na	≥ 0.5 mg/L	0.5 mg/L	0.14 ppm	FAAS
	Elemental analysis Cr, Mg, Cd, Zn, K, Mn	≥ 0.1 mg/L	0.1 mg/L	0.12 ppm	FAAS
	Trace element Analysis Sb, As, Hg	≥ 0.5 ppb	0.5 ppb	1.6	FAAS & HVG
Sugar / Sucrose	Colorimetric analysis	15 - 100	ICCUMSA reading 15 at least	0.1	UV – Visible Spectrophotometer
Sugar / Sucrose	Turbidity	5 - 1000	ICUMSA reading 5 at least	0.88	UV – Visible Spectrophotometer
Sugars confectionaries, corn Syrups, cordials, distilled liquors, Non alcoholic beverages, Milk & milk product, canned vegetables, food dressing, fruit & fruit products.	Acidity %	≥ 0.1%	0.1%	0.2	Titration Method
Solid & Semisolid foods	Fat %	≥ 0.1 %	0.1%	0.4 %	Soxhlet Apparatus Method
Food (cereals & cereal products. malt, Cocoa & Cocoa products, cane, beet, raw & refined sugars or foods other than	Moisture %	≥ 0.1 %	0.1%	0.4 %	Oven Drying Method

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acidic, Fruits & vegetables products)and animal or poultry feed					
Cereals & cereal products, milk & milk product, fruits and vegetables products, sugar & sugar products, sea foods, bakery products, and animal of poultry feeds	Ash %	≥ 0.1 %	0.1%	0.2 %	Muffle furnace method
Water (drinking, process) And Wastewater	Alkalinity	≥ 5 mg/L	5 mg/L	6.7mg/L	Titration Method
	Carbonates	≥ 5 mg/L	5 mg/L	1.1 mg/L	Titration Method
	Bi Carbonates	≥ 5 mg/L	5 mg/L	4.2 mg/L	Titration Method
	Total Hardness	≥ 5 mg/L	5 mg/L	4.1 mg/L	Titration Method
	Acidity	≥ 5 mg/L	5 mg/L	0.14 mg/L	Titration Method
	COD	≥ 5 mg/L	5 mg/L	8.8 mg/L	Open Reflux Method
	BOD	0 ppm- 200 ppm	0 ppm	Not applicable	Respirometric Method
	Chloride (Cl <sup>-</sup> )	≥ 5mg/L	5 mg/L	1.34 mg/L	Argentometric Method
	TDS	≥ 5 mg/L	5 mg/L	2 mg/L	Gravimetric Method
	TSS	≥ 5 mg/L	5 mg/L	3.0 mg/L	Drying Method
	Sulphate (SO <sub>4</sub> <sup>-</sup> )	≥ 10 mg/L	10 mg/L	0.58 mg/L	UV-Visible Spectrophotometer
	Nitrates (NO <sub>3</sub> <sup>-</sup> )	≥ 1 mg/L	1 mg/L	0.60 mg/L	UV-Visible Spectrophotometer
	Fluoride (F <sup>-</sup> )	≥ 0.2 mg/L	0.2 mg/L	0.58 mg/L	UV-Visible Spectrophotometer
	Conductivity	≥ 20 μS	20 μS	1.66 mg/L	Conductivity Meter
Oil & Grease	≥ 2 mg/L	2 mg/L	6.8 mg/L	Partition Gravimetric Method	
Fats & Oils	Determination of FFA in Crude & Refined oils	0.1% -50.0%	0.1%	0.1	Titration Method

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Fats & Oils	Determination of Peroxide Value (POV)	(2.0-50.0) Mili.equi.of Peroxide/Kg of Sample	0.5 Mili.equi.of Peroxide/Kg Of sample	1.0 %	Indirect Titration Method
Sugar based Products (solid, Semisolids and Liquid), Confectioner , Honey, biscuits and Cookies etc.	Determination Of Sugars	0.5 % -99.5 %	0.2 %	3.0 %	Lane &Eynon Method
Beverages, Juices, Soft Drinks, Wines and Syrups etc.	Determination Of Sodium Benzoate	0.5 % -5.00 %	0.2 %	3.0%	Extraction/ Titr ation Method
Liquid, solid, Semisolid Foods and Feeds.	Determination Of Crude Proteins	4.0 % - 25.0 %	1.0 %	1.5 %	Macro Kjeldhal Method
Foods (that Contain fibrous Materials)and Animal or poultry feed	Determination Of Crude Fiber	3.0% - 25.0 %	1.0%	2%	Acid /Base Digestion Method

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