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## **Accreditation No: LAB 003**

**Awarded to**

**QARSHI RESEARCH INTERNATIONAL Pvt. Ltd.  
Hattar Industrial Estate, Haripur,  
KPK, Pakistan.**

The scope of accreditation is in accordance with the standard specifications outlined in the following page(s) of this document. The accredited scope shall be visible and legible in areas such as customer service, sample-receiving section etc and shall not mislead its users.

The accreditation was first time granted on **03.06.2004** by Pakistan National Accreditation Council.

The laboratory complies with the requirements of **ISO/IEC 17025:2017**.

The accreditation requires regular surveillance, and is valid until **24.05.2025**.

The decision of accreditation made by Pakistan National Accreditation Council implies that the organization has been found to fulfill the requirements for accreditation within the scope.

The organization however, itself is responsible for the results of performed measurements/tests.

**PAKISTAN NATIONAL ACCREDITATION COUNCIL**

**02-06-2022**  
Date

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Director General

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### Testing Laboratory.

**Accreditation Scope of QARSHI RESEARCH INTERNATIONAL Pvt. Ltd.  
Hattar Industrial Estate, Haripur, KPK, Pakistan.**

Permanent laboratory premises

Materials/ Products tested	Testing field (e.g. environmental testing or mechanical testing)	Types of test/ Properties measured /technique	Reference to standardized method (e.g. ISO 14577- 1:2003)/ Internal method reference
Natural Health Supplements, Food, Water, Farm Products & Pharmaceuticals Articles	Food & Water	pH	USP-NF-2021, Method <791> APHA Standard Methods for the Examination of Water and Waste water (2017) Chapter No. 04, Page No. 95-99 AOAC 21 <sup>st</sup> Edition, Method <981.12>, Locator 42.1.04 <945.42>, Locator 32.3.19 <945.27>, Locator 27.6.07
		Brix / Refractive Index	USP-NF 2021, Method <831>
Concentrated Medicinal/ Refreshing Syrup, Chemicals	Food	Specific Gravity	USP-NF 2021, Method <841>
Natural Health Supplements	Pharmaceuticals and herbal products	LOD	USP-NF 2021, Method <731> (With lab Modification)
		Disintegration Time	USP-NF 2021, Method <701>
		Weight Variation in dietary supplements	USP-NF 2021, Method <2091>

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Solid dosage forms Tablet	Pharmaceuticals and herbal products	Tablet Friability	USP-NF 2021, Method <1216>
		Tablet Hardness	USP-NF 2021, Method <1217>
Chemicals	Pharmaceutical and Food grade	Melting Point	USP-NF 2021, Method <741>
PET & Bottles, Glass Bottles	Packing Material	Brimful Capacity	Lab developed Method
Labels & Packing Materials		Paper Grammage	ASTM D646-13
Fluids	Newtonian & Non-Newtonian	Viscosity	USP-NF 2021, Method <912>
Tablets (Acetaminophen)	Pharmaceutical	Assay	USP-NF 2021
Tablets (Acetaminophen)	Pharmaceutical	Dissolution Time	USP-NF 2021
Fats , Oils, Foods	Food	Free Fatty Acid	AOAC 21 <sup>st</sup> Edition, Method <940.28>, Locator 41.1.21

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		Peroxide Value	AOAC 21 <sup>st</sup> Edition, Method <965.33>, Locator 41.1.16
(Solid, semisolid and liquid), confectioneries, Honey, biscuits and cookies etc	Sugar based products	Determination of sugars	AOAC 21 <sup>st</sup> Edition, Method <935.62>, Locator 44.1.22 <923.09>, Locator 44.1.15
Beverages juices, soft drinks, Wines, Food & Farm Products	Food	Determination of Benzoic Acid and its salt	Pearson, Chemical Analysis of Food 9th ed. Page number 84
Liquid, solid, semisolid food , and feeds,	Food & Animal Feed	Determination of crude proteins	AOAC 21 <sup>st</sup> Edition, Method <954.01>, Locator 4.2.02 <2001.11>, Locator 4.2.11 <978.04>, Locator 3.5.09 <920.87>, Locator 32.1.22 <991.20>, Locator 33.2.11 <991.21>, Locator 33.2.12 <928.08>, Locator 39.1.15 <920.152>, Locator 37.1.35 <920.176>, Locator 44.1.06 Pearson, Chemical Analysis of Food 9th ed. Page number 16-21
Foods (that contain fibrous material animal or poultry feed),	Food	Crude fiber	AOAC 21 <sup>st</sup> Edition, Method <962.09>, Locator 4.6.01 Pearson, Chemical Analysis of Food 9th ed. Page number 26-27
Natural Health Supplement Food, Cereal & Cereal Products, Farm products Pharmaceutical articles Water and Waste Water	Food, Water & Waste Water	Ca, Ni,Pb, Fe, Na,Sb, Cr, Mg, Cd ,Zn, K, Mn, Cu, Hg, As, Co	FAAS Cook book (Analytical Methods for Atomic Absorption Spectroscopy)
Sugar and Sugar Syrup	Sugar	Color	ICUMSA GS 2/3-10

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		Turbidity	ICUMSA GS 2/3-18
Sugar Confectioneries, Corn Syrup, Cordial, Distilled liquors Non alcoholic beverages, Milk & Milk product Canned vegetable Fruit Dressing Fruit and Fruit Products,	Food	Acidity %	AOAC 21 <sup>st</sup> Edition, Method <940.15>, Locator 26.2.14 <950.15>, Locator 29.1.04 <947.05>, Locator 32.2.06 <942.15>, Locator 37.1.37 <935.57>, Locator 43.1.31 <925.53>, Locator 33.2.09 <945.26>, Locator 27.6.06 <945.64>, Locator 44.7.07
Solid and Semi Solid foods	Food	Fat%	AOAC 21 <sup>st</sup> Edition, Method <954.02>, Locator 4.5.02 <932.02>, Locator 4.5.06 <932.06>, Locator 33.5.08 <2003.05>, Locator 4.5.05 <2003.06>, Locator 4.5.06 <920.85>, Locator 32.1.13 <920.39>, Locator 4.5.01
Food(cereal and cereal products, Malt, Cocoa and Cocoa Products, cane, beet, raw & refined sugars or foods other than acidic, Fruits and vegetables products and animal poultry feed, sea food, bakery products	Food	Moisture%	AOAC 21 <sup>st</sup> Edition, Method <930.15>, Locator 4.1.06 <931.04>, Locator 31.1.02 <925.10>, Locator 32.1.03 <970.20>, Locator 31.1.01 <984.25>, Locator 42.3.09 <925.45>, Locator 44.1.03
		Ash %	AOAC 21 <sup>st</sup> Edition, Method <942.05>, Locator 4.1.10 <923.03>, Locator 32.1.05 <945.46>, Locator 33.2.10 <940.26>, Locator 37.1.18 <900.02>, Locator 44.1.05 <938.08>, Locator 35.1.14 <950.49>, Locator 40.1.08 <941.12>, Locator 43.1.05 <920.181>, Locator 44.4.05 <925.51>, Locator 42.1.12
Cereal & Cereal Products, Milk, Biscuits, Oils	Food & Oils	Vitamin A	AOAC 21 <sup>st</sup> Edition, Method <2001.13>, Locator 45.1.34

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Sugar and Sugar Syrup	Sugar	Conductivity Ash	ICUMSA GS 2/3-17
Food Products (Cereal & cereal Products) (Plants, Vegetable, Fruits & Spice) (Sugar & sugar products) (Meat & Meat products)	Food Products	Total Aflatoxin	Veratox Quantitative Aflatoxin Test Manual & AOAC 21 <sup>st</sup> Edition, Method <993.16>, Locator 49.2.13 <990.34>, Locator 49.2.07 <991.45>, Locator 49.2.10
Cereal, Fruits & Vegetables	Food	Pesticides: Pyriproxyfen Fipronil Acetamiprid Tricyclazole Thiamethoxam Chlorpyrifos Difenoconazole Carbaryl	GC-MS/MS AOAC 21 <sup>st</sup> Edition Method <2007.01>
Fats & oil	Food	Fatty Acids: C12:0 (Lauric Acid) C14:0 (Myristic Acid) C16:0 (Palmitic Acid) C18:0 (Stearic Acid) C20:0 (Arachidic Acid)	GC-FID AOAC 21 <sup>st</sup> Edition Method <2012.13>
Water & Wastewater	Water & Wastewater	Alkalinity	APHA Standard Methods for the Examination of Water and Waste water 23 <sup>rd</sup> edition (2017) Chapter No. 02, Page No. 36-39
		Carbonate	AOAC 21 <sup>st</sup> Edition, Method <920.194>, Locator 11.1.17
		Bi Carbonate	
		Total Hardness	APHA Standard Methods for the Examination of Water and Waste water 23 <sup>rd</sup> edition (2017) Chapter No. 02, Page No. 48-50
		Acidity	AOAC 21 <sup>st</sup> Edition, Method <973.42>, Locator 11.1.04 APHA Standard Methods for the Examination of Water and Waste water 23 <sup>rd</sup> edition (2017) Chapter No. 02, Page No. 34-36

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		COD	APHA Standard Methods for the Examination of Water and Waste water 23 <sup>rd</sup> edition (2017) Chapter No. 05, Page No. 21-22
		BOD	APHA Standard Methods for the Examination of Water and Waste water 23 <sup>rd</sup> edition (2017) Chapter No. 05, Page No. 5-17
		Chloride	APHA Standard Methods for the Examination of Water and Waste water 23 <sup>rd</sup> edition (2017) Chapter No. 04, Page No. 75-76
		TDS	APHA Standard Methods for the Examination of Water and Waste water 23 <sup>rd</sup> edition (2017) Chapter No. 02, Page No. 56-58
		TSS	APHA Standard Methods for the Examination of Water and Waste water 23 <sup>rd</sup> edition (2017) Chapter No. 02, Page No. 68-69
		Sulphate (SO <sub>4</sub> <sup>2-</sup> )	AOAC 21 <sup>st</sup> Edition, Method <973.57>, Locator 11.1.33
		Nitrate (NO <sub>3</sub> <sup>1-</sup> )	APHA Standard Methods for the Examination of Water and Waste water 23 <sup>rd</sup> edition (2017) Chapter No. 04, Page No. 126-127
		Fluoride(F <sup>1-</sup> )	APHA Standard Methods for the Examination of Water and Waste water 23 <sup>rd</sup> edition (2017) Chapter No. 04, Page No. 90-91
	Water & Wastewater	Conductivity	APHA Standard Methods for the Examination of Water and Waste water 23 <sup>rd</sup> edition (2017) Chapter No. 02, Page No. 56-58
		Oil & Grease	APHA Standard Methods for the Examination of Water and Waste water 23 <sup>rd</sup> edition (2017) Chapter No. 05, Page No. 41-44
		Turbidity	APHA Standard Methods for the Examination of Water and Waste water 23 <sup>rd</sup> edition (2017) Chapter No. 02, Page No. 12-15
	Water	Heterotrophic colony counts 35 ± 1°C	APHA 9215B Standard Methods for the Examination of Water and Waste water, Chapter # 9, Pg # 56. (23 <sup>rd</sup> Edition 2017)
		Heterotrophic colony count 23.5 ± 1.5°C	

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	Water	Presence/Absence of <i>Pseudomonas aeruginosa</i>	USP-44 <62>, 2021
		Enumeration of Coliforms	ISO 9308-1: 2014
		Enumeration of <i>E.coli</i>	
		Enumeration of <i>Enterococcus faecalis</i>	ISO 7899-2: 2000
		Enumeration of <i>Fecal coliform</i>	APHA 9222D Standard Methods for the Examination of water & waste water, Chapter # 9, Pg. # 89. (23 <sup>rd</sup> Edition 2017)
		Enumeration of <i>Pseudomonas aeruginosa</i>	ISO-16266:2006
Natural Health Supplements Food & Farm Products, &		Aerobic plate count	HPB Method MFHPB-18: 2020
		Yeast & Mold Counts	HPB Method MFHPB-22: 2018
Product intended for Human and animal feeding + Environmental samples	Food	Presence/Absence of <i>Salmonella spp.</i>	ISO 6579-1:2017/AMD 1:2020pro  RT-PCR by using BACGene <i>Salmonella</i> Spp. (Eurofins Gene scan). Test kit for qualitative real- time PCR detection of <i>Salmonella</i> <i>spp.</i>
		Presence/Absence of <i>Listeria monocytogenes &amp; Listeria spp.</i>	ISO 11290-1:2017
		Enumeration of Enterobacteriaceae	ISO 21528-2: 2017
		Detection of Cronobacter spp.	ISO 22964: 2017
Milk powder and powdered infant formula + Environmental samples			

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Food and Food ingredients		<i>Coliform</i> count	ISO 4832: 2006
		Enumeration of <i>Staphylococcus aureus</i>	ISO 6888-1:2021
		Presence/Absence of <i>E.coli</i>	USP-44 <62>, 2021
Natural Health Supplements Food & Farm Products, & Pharmaceuticals Articles		Presence/Absence of <i>Pseudomonas aeruginosa</i>	USP-44 <62>, 2021
		Presence/Absence of <i>Staphylococcus aureus</i>	USP-44 <62>, 2021
		Enumeration of <i>E.coli</i>	ISO 16649-2: 2001
		Enumeration of Total Aerobic Microbial Count	USP-44 <61>, 2021
Natural Health Supplements & Pharmaceuticals Articles	Pharmaceutical	Presence/ Absence of <i>Salmonella</i> Spp.	USP-44 <62>, 2021

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