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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

24-07-2024
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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 2023, Method <791> APHA Standard Methods for the Examination of Water and Waste water (2017) Chapter No. 04, Page No. 95-99 AOAC 21 st 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 2023, Method <831>
Concentrated Medicinal/ Refreshing Syrup, Chemicals	Food	Specific Gravity	USP-NF 2023, Method <841>
Natural Health Supplements	Pharmaceuticals and herbal products	LOD	USP-NF 2023, Method <731> (With lab Modification)
		Disintegration Time	USP-NF 2023, Method <701>
		Weight Variation in dietary supplements	USP-NF 2023, Method <2091>

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Solid dosage forms Tablet	Pharmaceuticals and herbal products	Tablet Friability	USP-NF 2023, Method <1216>
		Tablet Hardness	USP-NF 2023, Method <1217>
Chemicals	Pharmaceutical and Food grade	Melting Point	USP-NF 2023, 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 2023, Method <912>
Tablets (Acetaminophen)	Pharmaceutical	Assay	USP-NF 2023
Tablets (Acetaminophen)	Pharmaceutical	Dissolution Time	USP-NF 2023
Sugar	Food	Determination of Insoluble Matter in White Sugar	ICUMSA GS2/3/9-19 (2007)

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Fats, Oils, Foods	Food	Free Fatty Acid	AOAC 22 nd Edition, Method <940.28>, Locator 41.1.21
		Peroxide Value	AOAC 22 nd 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 22 nd 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 22 nd Edition, Method <954.01>, Locator 4.2.02 <2001.11>, Locator 4.2.11 <978.04>, Locator 3.5.09 <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.
Foods (that contain fibrous material animal or poultry feed),	Food	Crude fiber	AOAC 22 nd Edition, Method <962.09>, Locator 4.6.01 Pearson, Chemical Analysis of Food 9th ed.
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)

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Sugar and Sugar Syrup	Sugar	Color	ICUMSA GS 2/3-10
		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 22 nd Edition, Method <940.15>, Locator 26.2.14 <950.15>, Locator 29.1.04 <947.05>, Locator 33.2.06 <942.15>, Locator 37.1.37 <935.57>, Locator 43.1.31 <925.53>, Locator 42.2.17 <945.26>, Locator 27.6.06 <945.64>, Locator 44.7.07
Solid and Semi Solid foods	Food	Fat%	AOAC 22 nd Edition, Method <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 22 nd 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 22 nd 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

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Cereal & Cereal Products, Milk, Biscuits, Oils	Food & Oils	Vitamin A	AOAC 22 nd Edition, Method <2001.13>, Locator 45.1.34
Sugar and Sugar Syrup	Sugar	Conductivity Ash	ICUMSA GS 2/3-17
Food Products (Corn, Peanut Butter, Cotton Seed, Peanut)	Food Products	Total Aflatoxin	Veratox Quantitative Aflatoxin Test Manual & AOAC 22 nd Edition, Method <993.16>, Locator 49.2.13 <990.34>, Locator 49.2.07 <991.45>, Locator 49.2.10
Food Products	Food Products	Vitamin C	AOAC 22 nd Edition, Method <985.33>, Locator 50.1.09 Chemical analysis of food by Pearson's
Cereal, Fruits & Vegetables	Food	Pesticides: Pyriproxyfen Fipronil Acetamiprid Tricyclazole Thiamethoxam Chlorpyrifos Difenoconazole Carbaryl	GC-MS/MS AOAC 22 nd Edition Method <2007.01>, Locator 10.1.04
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 22 nd Edition Method <2012.13>, Locator 50.3.01
Water & Wastewater	Water & Wastewater	Alkalinity	APHA Standard Methods for the Examination of Water and Waste water 24 th edition (2023) Chapter No. 02
		Carbonate	AOAC 22 nd Edition, Method <920.194>, Locator 11.1.17
		Bi Carbonate	
		Total Hardness	APHA Standard Methods for the Examination of Water and Waste water 24 th edition (2023) Chapter No. 02

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Water & Wastewater	Water & Wastewater	Acidity	AOAC 22 nd Edition, Method <973.42>, Locator 11.1.04 APHA Standard Methods for the Examination of Water and Waste water 24 th edition (2023) Chapter No. 02
		COD	APHA Standard Methods for the Examination of Water and Waste water 24 th edition (2023) Chapter No. 05
		BOD	APHA Standard Methods for the Examination of Water and Waste water 24 th edition (2023) Chapter No. 05
		Chloride	APHA Standard Methods for the Examination of Water and Waste water 24 th edition (2023) Chapter No. 04
		TDS	APHA Standard Methods for the Examination of Water and Waste water 24 th edition (2023) Chapter No. 02
		TSS	APHA Standard Methods for the Examination of Water and Waste water 24 th edition (2023) Chapter No. 02
		Sulphate (SO ₄ ²⁻)	AOAC 22 nd Edition, Method <973.57>, Locator 11.1.33
		Nitrate (NO ₃ ¹⁻)	APHA Standard Methods for the Examination of Water and Waste water 24 th edition (2023) Chapter No. 04
		Fluoride(F ¹⁻)	APHA Standard Methods for the Examination of Water and Waste water 24 th edition (2023) Chapter No. 04
		Conductivity	APHA Standard Methods for the Examination of Water and Waste water 24 th edition (2023) Chapter No. 02
		Oil & Grease	APHA Standard Methods for the Examination of Water and Waste water 24 th edition (2023) Chapter No. 05
		Turbidity	APHA Standard Methods for the Examination of Water and Waste water 24 th edition (2023) Chapter No. 02
Water & Wastewater	Water	Heterotrophic colony counts (35 ± 0.5) °C	APHA 9215B Standard Methods for the

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		Heterotrophic colony count (28 ± 1) °C	Examination of Water and Waste water, Chapter # 9 (24 th edition (2023))
		Enumeration of Coliforms	ISO 9308-1: 2014
		Enumeration of <i>E. coli</i>	
		Enumeration of <i>Enterococcus fecalis</i>	ISO 7899-2: 2000
		Enumeration of <i>Fecal coliform</i>	APHA 9222D Standard Methods for the Examination of water & waste water, Chapter # 9 (24 th edition (2023))
		Enumeration of <i>Pseudomonas aeruginosa</i>	ISO-16266:2006
		Enumeration of Yeast	APHA 9610 Standard Methods for the Examination of water & waste water, Chapter # 9, Pg. # 1300 (24 th edition)
		Enumeration of Mold	
		Enumeration of <i>Staphylococcus aureus</i>	APHA 9213 Standard Methods for the Examination of water & waste water, Chapter # 9, Pg. # 1107. (24 th edition)
Natural Health Supplements Food & Farm Products, & Product intended for Human and animal feeding + Environmental samples	Food	Aerobic plate count	HPB Method MFHPB-18: 2020
		Yeast & Mold Counts	HPB Method MFHPB-22: 2018
		Presence/Absence of <i>Salmonella spp.</i>	ISO 6579-1:2017/AMD 1:2020
			RT-PCR by using BACGene <i>Salmonella</i> Spp. (Eurofins Gene scan). Test kit for qualitative real-time PCR detection of <i>Salmonella spp.</i>
		Presence/Absence of <i>Listeria monocytogenes & Listeria spp.</i>	ISO 11290-1:2017
		Enumeration of Enterobacteriaceae	ISO 21528-2: 2017
		<i>Coliform</i> count	ISO 4832: 2006

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	Food	Enumeration of <i>Staphylococcus aureus</i>	ISO 6888-1:2021
		Enumeration of <i>E. coli</i>	ISO 16649-2: 2001
Milk powder and powdered infant formula + Environmental samples		Detection of Cronobacter spp.	ISO 22964: 2017
Natural Health Supplements Food & Farm Products, & Pharmaceuticals Articles	Pharmaceutical	Presence/Absence of <i>E. coli</i>	USP-44 <62>, 2023
		Presence/Absence of <i>Pseudomonas aeruginosa</i>	USP-44 <62>, 2023
		Presence/Absence of <i>Staphylococcus aureus</i>	USP-44 <62>, 2023
		Enumeration of Total Aerobic Microbial Count	USP-44 <61>, 2023
		Presence/ Absence of <i>Salmonella</i> Spp.	USP-44 <62>, 2023

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