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|  | ACCREDITATION DOCUMENT | F-06/02 Issue Date: 18/08/2020 Rev. No: 09 LAB 003 |
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Accreditation No: LAB 003

Awarded to

(Testing Laboratory)

QARSHI RESEARCH INTERNATIONAL Pvt. Ltd.

56/1-4, Phase 3, Industrial Estate

Hattar, 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 **24.05.2028**.

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

12-08-2025
Date

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Director General

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|  | ACCREDITATION DOCUMENT | F-06/02 Issue Date: 18/08/2020 Rev. No: 09 LAB 003 |
|---|-----------------------------------|---|

Testing Laboratory.

Accreditation Scope of QARSHI RESEARCH INTERNATIONAL Pvt. Ltd.
56/1-4, Phase 3, Industrial Estate, Hattar, 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, 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, Method <831> |
| Concentrated Medicinal/ Refreshing Syrup, Chemicals | Food | Specific Gravity | USP-NF, Method <841> |
| Natural Health Supplements | Pharmaceuticals and herbal products | LOD | USP-NF, Method <731> (With lab Modification) |
| | | Disintegration Time | USP-NF, Method <701> |
| | | Weight Variation in dietary supplements | USP-NF, Method <2091> |

12-08-2025
Date

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Director

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|---|-----------------------------------|---|
|  | ACCREDITATION DOCUMENT | F-06/02 Issue Date: 18/08/2020 Rev. No: 09 LAB 003 |
|---|-----------------------------------|---|

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

12-08-2025
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sd

Director

| | | |
|---|-----------------------------------|---|
|  | ACCREDITATION DOCUMENT | F-06/02 Issue Date: 18/08/2020 Rev. No: 09 LAB 003 |
|---|-----------------------------------|---|

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| Fats, Oils, Foods | Food | Free Fatty Acid | AOAC, Method <940.28>, Locator 41.1.21 |
| | | Peroxide Value | AOAC, Method <965.33>, Locator 41.1.16 |
| (Solid, semisolid and liquid), confectioneries, Honey, biscuits and cookies etc | Sugar based products | Determination of sugars | AOAC, 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 | AOAC <994.11> & <979.08> with lab modification |
| Liquid, solid, semisolid food, and feeds, | Food & Animal Feed | Determination of crude proteins | AOAC, 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 |
| Foods (that contain fibrous material animal or poultry feed), | Food | Crude fiber | AOAC, Method <962.09>, Locator 4.6.01 Pearson, Chemical Analysis of Food |
| 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) AOAC 999.10, 11^ APHA 4500 |
| Sugar and Sugar Syrup | Sugar | Color | ICUMSA GS 2/3-10 |

12-08-2025

Date

sd

Director

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|---|-----------------------------------|---|
|  | ACCREDITATION DOCUMENT | F-06/02 Issue Date: 18/08/2020 Rev. No: 09 LAB 003 |
|---|-----------------------------------|---|

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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, 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, 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, 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, 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, Method <2001.13>, Locator 45.1.34 |

12-08-2025
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sd
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|---|-----------------------------------|---|
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|---|-----------------------------------|---|

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| 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, 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, 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 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 Method <2012.13>, Locator 50.3.01 |
| Water & Wastewater | Water & Wastewater | Alkalinity | APHA Standard Methods for the Examination of Water and Waste water Chapter No. 02 |
| | | Carbonate | AOAC, Method <920.194>, Locator 11.1.17 |
| | | Bi Carbonate | |
| | | Total Hardness | APHA Standard Methods for the Examination of Water and Waste water Chapter No. 02 |
| | | Acidity | AOAC, Method <973.42>, Locator 11.1.04 APHA Standard Methods for the Examination of Water and Waste water Chapter No. 02 |

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| | | |
|---|-----------------------------------|---|
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|---|-----------------------------------|---|

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| Water & Wastewater | Water & Wastewater | COD | APHA Standard Methods for the Examination of Water and Waste water Chapter No. 05 |
| | | BOD | APHA Standard Methods for the Examination of Water and Waste water Chapter No. 05 |
| | | Chloride | APHA Standard Methods for the Examination of Water and Waste water Chapter No. 04 |
| | | TDS | APHA Standard Methods for the Examination of Water and Waste water Chapter No. 02 |
| | | TSS | APHA Standard Methods for the Examination of Water and Waste water Chapter No. 02 |
| | | Sulphate (SO ₄ ²⁻) | AOAC, Method <973.57>, Locator 11.1.33 |
| | | Nitrate (NO ₃ ¹⁻) | APHA Standard Methods for the Examination of Water and Waste water Chapter No. 04 |
| | | Fluoride(F ¹⁻) | APHA Standard Methods for the Examination of Water and Waste water Chapter No. 04 |
| | | Conductivity | APHA Standard Methods for the Examination of Water and Waste water Chapter No. 02 |
| | | Oil & Grease | APHA Standard Methods for the Examination of Water and Waste water Chapter No. 05 |
| | | Turbidity | APHA Standard Methods for the Examination of Water and Waste water Chapter No. 02 |
| Water & Wastewater | Water | Heterotrophic colony counts (35 ± 0.5) °C | APHA 9215B Standard Methods for the Examination of Water and Waste water, Chapter # 9 |
| | | Heterotrophic colony count (28 ± 1) °C | |
| | | Enumeration of Coliforms | ISO 9308-1: 2014 |

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|---|-----------------------------------|---|
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|---|-----------------------------------|---|

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| | | 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 |
| | | 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 |
| | | Enumeration of Mold | |
| | | Enumeration of <i>Staphylococcus aureus</i> | APHA 9213 Standard Methods for the Examination of water & waste water, Chapter # 9 |
| 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 |
| | | Enumeration of <i>Staphylococcus aureus</i> | ISO 6888-1:2021 |
| | | Enumeration of <i>E. coli</i> | ISO 16649-2: 2001 |

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| | | |
|---|-----------------------------------|---|
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|---|-----------------------------------|---|

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| Milk powder and powdered infant formula + Environmental samples | Food | 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> |
| | | Presence/Absence of <i>Pseudomonas aeruginosa</i> | USP-44 <62> |
| | | Presence/Absence of <i>Staphylococcus aureus</i> | USP-44 <62> |
| | | Enumeration of Total Aerobic Microbial Count | USP-44 <61> |
| | | Presence/ Absence of <i>Salmonella</i> Spp. | USP-44 <62> |
| | | Enumeration of Total Yeast Count | USP-44 <61> |
| | | Enumeration of Total Mold Count | USP-44 <61> |

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