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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

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 **24.05.2022**.

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

30-12-2020

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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 | 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-43, NF-38, Volume-7, Method <791>, Page # 7022 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-43, NF-38, Volume-7, Method <831>, Page # 7137 |
| Concentrated Medicinal/ Refreshing Syrup, Chemicals | Food | Specific Gravity | USP-43, NF-38, Volume-7, Method <841>, Page # 7137 |
| Natural Health Supplements | Pharmaceuticals and herbal products | LOD | USP-43, NF-38, Volume-7, Method <731>, Page # 6970 |
| | | Disintegration Time | USP-43, NF-38, Volume-7, Method <741>, Page # 6940 |

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| | | Weight Variation in dietary supplements | USP-43, NF-38, Volume-8, Method <2091>, Page # 8718 |
| Solid dosage forms Tablet | Pharmaceuticals and herbal products | Tablet Friability | USP-43, NF-38, Volume-8, Method <1216>, Page # 8137 |
| | | Tablet Hardness | USP-43, NF-38, Volume-7, Method <1217>, Page # 8138 |
| Chemicals | Pharmaceutical and Food grade | Melting Point | USP-43, NF-38, Volume-7, Method <741>, Page # 6980 |
| 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-43, NF-38, Volume-7, Method <912>, Page # 7189 |
| Fats , Oils, Foods | Food | Free Fatty Acid | AOAC 21 st Edition, Method <940.28>, Locator 41.1.21 |
| | | Peroxide Value | AOAC 21 st Edition, Method <965.33>, Locator 41.1.16 |

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| (Solid, semisolid and liquid), confectioneries, Honey, biscuits and cookies etc | Sugar based products | Determination of sugars | AOAC 21 st 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 st 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 st 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 |
| | | Turbidity | ICUMSA GS 2/3-18 |

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| 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 st 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 st 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 st 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 st 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 st Edition, Method <2001.13>, Locator 45.1.34 |
| Sugar and Sugar Syrup | Sugar | Conductivity Ash | ICUMSA GS 2/3-17 |

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| <p align="center">Food Products (Cereal & cereal Products) (Plants, Vegetable, Fruits & Spice) (Sugar & sugar products) (Meat & Meat products)</p> | <p align="center">Food Products</p> | <p align="center">Total Aflatoxin</p> | <p align="center">Veratox Quantitative Aflatoxin Test Manual & AOAC 21st Edition, Method <993.16>, Locator 49.2.13 <990.34>, Locator 49.2.07 <991.45>, Locator 49.2.10</p> |
| <p align="center">Water & Wastewater</p> | <p align="center">Water & Wastewater</p> | <p align="center">Alkalinity</p> | <p align="center">APHA Standard Methods for the Examination of Water and Waste water 23rd edition (2017) Chapter No. 02, Page No. 36-39</p> |
| | | <p align="center">Carbonate</p> | <p align="center">AOAC 21st Edition, Method <920.194>, Locator 11.1.17</p> |
| | | <p align="center">Bi Carbonate</p> | |
| | | <p align="center">Total Hardness</p> | <p align="center">APHA Standard Methods for the Examination of Water and Waste water 23rd edition (2017) Chapter No. 02, Page No. 48-50</p> |
| | | <p align="center">Acidity</p> | <p align="center">AOAC 21st Edition, Method <973.42>, Locator 11.1.04 APHA Standard Methods for the Examination of Water and Waste water 23rd edition (2017) Chapter No. 02, Page No. 34-36</p> |
| | | <p align="center">COD</p> | <p align="center">APHA Standard Methods for the Examination of Water and Waste water 23rd edition (2017) Chapter No. 05, Page No. 21-22</p> |
| | | <p align="center">BOD</p> | <p align="center">APHA Standard Methods for the Examination of Water and Waste water 23rd edition (2017) Chapter No. 05, Page No. 5-17</p> |
| | | <p align="center">Chloride</p> | <p align="center">APHA Standard Methods for the Examination of Water and Waste water 23rd edition (2017) Chapter No. 04, Page No. 75-76</p> |
| | | <p align="center">TDS</p> | <p align="center">APHA Standard Methods for the Examination of Water and Waste water 23rd edition (2017) Chapter No. 02, Page No. 56-58</p> |
| | | <p align="center">TSS</p> | <p align="center">APHA Standard Methods for the Examination of Water and Waste water 23rd edition (2017) Chapter No. 02, Page No. 68-69</p> |

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| | Water & Wastewater | Sulphate (SO ₄ ²⁻) | AOAC 21 st Edition, Method <973.57>, Locator 11.1.33 |
| | | Nitrate (NO ₃ ¹⁻) | APHA Standard Methods for the Examination of Water and Waste water 23 rd edition (2017) Chapter No. 04, Page No. 126-127 |
| | | Fluoride(F ¹⁻) | APHA Standard Methods for the Examination of Water and Waste water 23 rd edition (2017) Chapter No. 04, Page No. 90-91 |
| | | Conductivity | APHA Standard Methods for the Examination of Water and Waste water 23 rd edition (2017) Chapter No. 02, Page No. 56-58 |
| | | Oil & Grease | APHA Standard Methods for the Examination of Water and Waste water 23 rd edition (2017) Chapter No. 05, Page No. 41-44 |
| | | Turbidity | APHA Standard Methods for the Examination of Water and Waste water 23 rd 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 rd Edition 2017) |
| | | Heterotrophic colony count 23.5 ± 1.5°C | |
| | | Presence/Absence of <i>Pseudomonas aeruginosa</i> | USP-43 <62>, 2020 Pg # 6466-6467 |
| | | Enumeration of <i>Coliforms</i> | 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, Pg # 89. (23 rd Edition 2017) |

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| Natural Health Supplements Food & Farm Products, & | Water | Enumeration of <i>Pseudomonas aeruginosa</i> | ISO-16266:2006 |
| | Food | Aerobic plate count | HPB Method MFHPB-18 : 2020 |
| | | Yeast & Mold Counts | HPB Method MFHPB-22 : 2018 |
| Presence/Absence of <i>Salmonella</i> | | ISO-6579-1:2017 | |
| Presence/Absence of <i>Listeria monocytogenes</i> & <i>Listeria spp.</i> | | ISO 11290-1:2017 | |
| Enumeration of Enterobacteriaceae | | ISO 21528-2:2017 | |
| Detection of Cronobacter spp. | | ISO 22964: 2017 | |
| <i>Coliform</i> count | | ISO 4832: 2006 | |
| Enumeration of <i>Staphylococcus aureus</i> | | ISO 6888-1:2003 | |
| Presence/Absence of <i>E.coli</i> | | USP-43 <62>, 2020 Pg # 6466 | |
| Presence/Absence of <i>Pseudomonas aeruginosa</i> | | USP-43 <62>, 2020 Pg # 6466-6467 | |
| Natural Health Supplements Food & Farm Products, & Pharmaceuticals Articles | Presence/Absence of <i>Staphylococcus aureus</i> | USP-43 <62>, 2020 Pg # 6467 | |
| | Enumeration of <i>E.coli</i> | ISO 16649-2: 2001 | |
| | Product intended for Human and animal feeding + Environmental samples | Milk powder and powdered infant formula + Environmental samples | |
| Food and Food ingredients | Food and Food ingredients | Food and Food ingredients | Food and Food ingredients |

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