

	<b>ACCREDITATION DOCUMENT</b>	<b>F-06/02</b> <b>Issue Date: 18/08/2020</b> <b>Rev. No: 09</b> <b>LAB 024</b>
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## Accreditation No: LAB 024

### Awarded to

### **Food & Biotechnology Research Centre (FBRC), Pakistan Council of Scientific & Industrial Research (PCSIR) Labs. Complex. Lahore 54600, 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 **24-08-2006** 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 **16-06-2025**.

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**

25-04-2024

Date

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Director General

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### Testing Laboratory.

Accreditation scope of Food and Biotechnology Research Centre (FBRC), Pakistan Council of Scientific & Industrial Research (PCSIR) Laboratories Complex, Lahore 54600, 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
<b>1. Microbiology Testing Laboratory</b>			
Food	Microbiological testing	Enumeration of total plate count in food	FAO: 1992.
		Enumeration of Total Coliforms, Fecal coliforms and <i>E.coli</i> in food	FAO: 1992.
water	Microbiological testing	Enumeration of total plate count in water	APHA/AWWA, 9215-B:2023
		Enumeration of Total Coliforms, Fecal Coliforms and <i>E.coli</i> in water	APHA/AWWA, 9221B, E & F:2023
Food	Microbiological testing	Enumeration of <i>Staphylococcus aureus</i> in food	FAO: 1992.
water	Microbiological testing	Enumeration of <i>Pseudomonas aerogenosa/spp.</i> in water	APHA/AWWA, 9213 F:2023
Food	Microbiological testing	Enumeration of yeast count/g	BAM chapter 18 :2001
	Microbiological testing	<i>Detection of Salmonella spp./25g</i>	BAM chapter 05 :2023
<b>2. Nutrition Testing Laboratory</b>			
Cereals	Nutritional testing	Estimation of Moisture (%)	AOAC. 925.10:2023
		Estimation of Ash (%)	AOAC. 923.03:2023
		Determination of Protein (%)	AOAC. 960.52:2023
		Estimation of Fat (%)	AOAC. 920.39:2023
Animal feed	Chemical testing	Estimation of Moisture (%)	AOAC. 934.01:2023
		Estimation of Ash (%)	AOAC. 942.05:2023
		Determination of Protein (%)	AOAC. 960.52:2023
		Estimation of Fat (%)	AOAC.920.39:2023

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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
<b>3.Mycotoxin Testing Laboratory</b>			
Food items (Cereals, Ground Nuts, Chilli, Spices, Corn, Pine Nuts etc.)	Chemical Testing	Determination of Aflatoxin B1	AOAC.972.26:2023
		Determination of Aflatoxin B2	
		Determination of Aflatoxin G1	
		Determination of Aflatoxin G2	
Milk (Liquid & Powdered)			Determination of Aflatoxin M1
<b>4. Food and Water Testing Laboratory</b>			
Dried food (Atta,Maida, wheat grains etc.)	Chemical testing	Estimation of Phytate in foods	AOAC 986.11:2023
Rice	Chemical Testing	Estimation of Cadmium	AOAC 999.11: 2023 (Validated)
		Estimation of Lead	AOAC 999.11: 2023 (Validated)
Water	Chemical Testing	Determination of Sodium (as Na <sup>+</sup> ) in drinking water	APHA/AWWA, 3500-Na B : 2023
		Determination of Potassium (as K <sup>+</sup> ) in drinking water	APHA/AWWA, 3500- K B: 2023
		Determination of zinc in drinking water.	APHA/AWWA 3111-B:2023
		Determination of cadmium in drinking water.	APHA/AWWA 3111-B:2023
		Determination of Total Dissolved solids in Water	APHA/AWWA 2540-C:2023

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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
<b>5. Dairy Testing Laboratory</b>			
Milk	Chemical	Determination of Total Solids (%)	AOAC.990.20:2023
		Determination of Total Protein (%)	AOAC.991.20:2023
		Determination of Ash (%)	AOAC.945.46:2023
		Determination of Fat (%)	AOAC 2000.18:2023
<b>6. Toxicology Testing Laboratory</b>			
Pesticides, Rodenticide & Chemicals	Toxicology	Acute Oral Toxicity	OECD 423:2001
		Acute Eye Irritation/Corrosion	OECD 405:2021
		Acute Dermal Irritation / Corrosion	OECD 404:2015
		Acute Dermal Toxicity	OECD 402:2017
		Skin Sensitization	OECD 406:2020
Medical devices	Biological evaluation of medical devices	Test for <i>In vitro</i> cytotoxicity	ISO 10993-5: 2009
		Skin Sensitization	ISO 10993-10:2021
		Dermal Irritation	ISO 10993-23:2021
		Sample Preparation	ISO10993-12:2012
<b>7. Fruits &amp; Vegetable Laboratory</b>			
Juices, Squashes, Concentrates Soft Drinks etc	Physico-Chemical	Brix	LLC/FVP/TM-001
	Physical	Gas Volume	LLC/FVP/TM-002

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Director