Accreditation No: LAB 038

Awarded to

Applied Chemistry Research Centre (ACRC), 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 **16-09-2025.**

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

16-06-2025

Date

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Director General

Testing Laboratory.

Accreditation scope of Applied Chemistry Research Centre (ACRC), Pakistan Council of Scientific & Industrial Research (PCSIR) Laboratories Complex, Lahore 54600, Pakistan.

Permanent laboratory premises X

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
Applied Chemistry Research Centre (ACRC) Laboratories			
Textiles	Physical Testing	Colorfastness to Crocking: Crock meter Method	AATCC 8-2016
		Colour Fastness to Domestic & Commercial Laundering	ISO 105 C06(C2S):2010
		Colour Fastness to Domestic & Commercial Laundering a Non-phosphate Reference Detergent incorporating using a Low-temperature Bleach Activator	ISO 105 C08:2010
		Colour Fastness to Dry Cleaning	ISO 105 D01:2010
		Colour Fastness to Water	ISO 105 E01:2013
		Colour Fastness to Sea-water	ISO 105 E02 :2013
		Colour Fastness to Perspiration	ISO 105 E04:2013
		Colour Fastness to Rubbing	ISO 105 X12:2016
		Fabric Propensity to Surface Pilling, Fuzzing or Matting-Pilling Box Method	ISO 12945-1:2020
		Fabric Propensity to Surface Pilling, Fuzzing or Matting-Modified Martindale Method	ISO 12945-2:2020

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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
Textiles	Physical Testing	Abrasion Resistance of Fabrics by the Martindale Method (Specimen Breakdown)	ISO 12947-2:2016
		Dimensional Changes of Fabrics After Home Laundering	AATCC 135-2018
		Dimensional Changes of Garments After Home Laundering	AATCC 150-2018
		Linear Density of Yarn (Yarn Number) by the Skein Method	ASTM D 1907/D1907M-12
		End (Warp) and Pick (Filling) Count of Woven Fabrics	ASTM D 3775-17
		Mass per Unit Area (Weight) of Fabric	ASTM D 3776/D3776M-20
		Colour Fastness: Grey Scale for Assessing Change in Colour	ISO 105 A02:1993
		Colour Fastness: Grey Scale for Assessing Staining	ISO 105 A03:2019
Leather & Leather Made-ups	Chemical Testing	Cr-VI Content in Leather	SLC 22 (IUC18) ISO 17075:2017
		Pentachlorophenol in Leather	CLRI & Freiburg Method:1991
		Formaldehyde Content in Leather	SLC 23 (IUC 19) ISO 17226::2018
		pH Value of Leather Extract	IUC 11, SLC 13 ISO 4045:2018
	Physical testing	Tensile strength and percentage extension	IUP 6, SLP 6 ISO 3376 : 2020
		Colour Fastness to Circular Rubbing	SLF 5 BS1006:UK-LC
		Tear Load (Double edge)	IUP 8, SLP 7 ISO 3377-2: 2016
		Tear Resistance (Single edge) for protective gloves	EN ISO 388: 2016 + A1:018 (6.4)

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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
		Abrasion Resistance for protective gloves	EN ISO 388: 2016 + A1:018 (6.4))
		Water Vapour Transmission for protective gloves	BS EN 21420:2020 (6.3)
Paper & Paper Board	Physical Testing	Moisture Content	TAPPI T412-om-22
		Grammage	TAPPI T410-om-23
Polymer Material: Rubber, Vulcanized or Thermoplastics		Density	ISO 1183-1: 2019 **ISO 2781:2018**
Fruits, Vegetables, Cereals & Crops	Chemical testing	Residue Determination • Heptachlor • Malathion • Chlorpyrifos-Ethyl • Aldrin • Dieldrin • Cypermethrin • Deltamethrin • Permethrin • Bifenthrin	AOAC 998.01:2023 (Validated)
		1. Insecticides • Heptachlor, • Malathion • Chlorpyrifos-Ethyl • Aldrin • Dieldrin • Cypermethrin • Permethrin • Deltamethrin • Bifenthrin • Endosulphan I • Endosulphan II • HCH	AOAC 2007.1:2023 (Validated)

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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
		• Dichlorvos • Fipronil • 4,4'-DDT • Lamba Cyhalothrin • Chlorfenapyr 2. Fungicides • Tebuconazole • Dimethomorph • Difenoconazole • Azoxystrobin • Trifloxystrobin • Propiconazole 3. Herbicides • Atrazine • Clodinafop free acid • Pendimethalin • Metolachlor	
		Determination of Lead (Pb)	AOAC 999.11:2023 & 999.10:2023 (Validated)
Fruits, Vegetables, Cereals & Crops (PHI)		Dimethoate	AOAC 2007.1:2023 (Validated)
		Chlorothalonil	
		Tetraconazole	
Plant growth Regulator (Formulation)	Chemical testing	Naphthyl Acetic Acid	PRL/TMD/04
Milk & Milk Products		Chlorpyrifos	AOAC 2007.1:2023 (Validated)
		Pendimethalin	
		Bifenthrin	
Fish		**Aldrin**	**AOAC 2007.1:2023 (Validated)**
		Dieldrin	
		Heptachlor	
Fertilizer		Potassium Sulphate	PS 1501:2011

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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
Meat	Chemical testing	Determination of Chloramphenicol residue.	LLC/DRL/TM/001 (USP 38, NF 33 2015 Analytica Chimica Acta, 2005, 535, 33-41)
Oil / Extract of Cannabis		Determination of Cannabidiol (CBD)	LLC/DRL/TM/002
Hemp Extract		**Determination of Delta-9-tetrahydrocannabinol (THC)**	**LLC/DRL/TM/003**
Oil/Fats		Free Fatty Acids (FFA) in Crude & Refined Fats& Oils	AOCS:2017(Ca 5a-40)
		Peroxide value (POV) in Fats & Oils	AOCS:2017(Cd 8b-90)
		Moisture and Volatile Matter in Butter, Fats, Margarines & Oils.	AOCS:2017 (Ca 2b-38)
		Refractive Index of Fats & Oils	AOCS:2017 (Cc 7-25)
		Iodine Value of Fats & Oils	AOCS:2017 (Cd 1d-92)
		Saponification value of Fats and Oils	AOCS 2017 (Cd 3-25)
		Acid value of Fats and Oils	AOCS 2017 (Cd 3d-63)
Salt		Loss of Mass	ISO 2483: 1973
		Calcium (Ca^{2+})	ISO 2482: 1973
		Magnesium (Mg^{2+})	ISO 2482: 1973
		Chloride (Cl^{-})	ISO 2481: 1973
Petroleum	Physical Testing	Flash Point	ASTM D 92-2018

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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
Products		**Density**	**ASTM D 1298-2017**

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