

	ACCREDITATION DOCUMENT	F-06/02 Issue Date: 18/08/2020 Rev. No: 09 LAB 039
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Accreditation No: LAB 039

Awarded to

**Industrial Analytical Center-HEJ Research Institute of Chemistry,
International Center for Chemical and Biological Sciences, University of
Karachi.**

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 **06-09-2010** 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 **11-03-2026**.

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

02-05-2023

Date

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Director General

	ACCREDITATION DOCUMENT	F-06/02 Issue Date: 18/08/2020 Rev. No: 09 LAB 039
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Testing Laboratory.

Accreditation Scope of **Industrial Analytical Center-HEJ Research Institute of Chemistry, International Center for Chemical and Biological Sciences, University of Karachi.**

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
1. Deltamethrine	Pesticides Testing	Concentration of Deltamethrine	Ref AOAC 991.03/7.5.05 (Chapter 7, p 59)
2. Fats and oil	Food Testing	Concentration of free fatty acids	Ref ASTM D5555
		Saponification Value	AOCS Cd 3a-94
		Iodine Value	AOCS Cd 1c-85
		Fatty Acid Composition	AOCS Ce 1h-05
		C12:0 (Lauric Acid)	
		C14:0 (Myristic Acid)	
		C16:0 (Palmitic Acid)	
		C18:0 (Stearic Acid)	
		C18:1 (Oleic Acid)	
		C18:2 (Linoleic Acid)	
		C18:3 (Linolenic Acid)	
		C20:0 (Eicosanoic Acid)	
		Density	AOCS official Method Cc 10c-95
		Moisture & Volatile Matters	AOCS official Method Ca 2c-25
3a. Corn , Milo, rice, grains and feeds	Food Testing	Concentration of Aflatoxin	Vicam L.P Afla Test 4.6 Manual Instructions AOAC 991.31 method (Pg 34)
3b. Peanuts			AOAC 991.3/ 49.2.16, pg. 21

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4. Water	Food Testing	Concentration of Metals	ASTM D1976
		Cr	
		Al	
		Ni	
		Mn	
		Ca	
		Pb	
		Mg	
		Fe	
		B	
		Cu	
		Ag	
		Sr	
		Ba	
		Bi	
		Cd	
		Co	
		K	
		Li	
		Na	
		Zn	
		pH	AOAC 973.40, 973.41
		Conductivity	
5. Caffeine in Tea	Food Testing	Concentration of caffeine	United State Pharmacopeia 2023
6. In Ready to drink items	Food Testing	Alcohol (Ethanol)	Journal of Food & Drug Analysis, Vol. 11, No. 2, 2003, Pages 133-140
7. Rice	Food Testing	GMO- Genetically Modified Organism (Qualitative)	1. Qiagen DNeasy® mericon™ food Kit 2. eurofins GeneScan GENESpin DNA isolation Kit 3. eurofins GeneScan GMOScreen RT IPC PCR Kit 4. Qubit® dsDNA BR/HS Assay Kit.

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8. Meat	Food Testing	Pork Detection (Qualitative)		1.Qiagen DNeasy® mericon™ food Kit 2. QIAGEN Mericon™ PIG Real-Time KIT 3. Qubit ® dsDNA BR/HS Assay Kit. 4. eurofins GeneScan DNAAnimal identification RT PCR NR Kit (bovine, turkey, pork) 5. eurofins GeneScan GENESpin DNA isolation Kit	
9. Tea	Food Testing	Water extract		ISO 9768	
		Total ash		ISO 1575	
		Water soluble ash		ISO 1576	
		Crude fibre		ISO 15598	
10. Milk	Food Testing	Fat		Gerber/ AOAC 2000.18	
		Titratable acidity		GEA A19a	
11. Raw Sugar	Food Testing	Ash		ICUMSA GS1-10	
		Moisture		ICUMSA GS2/1/3/9 -15	
		Reducing sugars		ICUMSA GS1-5 (2009)	
12. Xylene & Toluene (Organic chemicals)	Petroleum Testing	Analysis of Xylene isomers		ASTM D-7504	
		o-Xylene			
		p-Xylene			
		m-Xylene			
		Ethylebenzene			
		Toluene			
13.Diesel	Petroleum Testing	Flash Point (PMCC)		ASTM D93	
		Ash		ASTM D482	
		Specific Gravity		ASTM D1298	
		Acid Number		ASTM D974	
		Color		ASTM D1500	
		Distillation	At IBP		
			At 50°C		
			At 90°C		

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14.Cephadrine	Pharmaceutical Testing	Amount of Cephadrine	USP 43 Official Monographs/Cephadrine 907
15. Tablets/ Capsules	Pharmaceutical Testing	Dissolution/ Tablet Testing (Acid stage and Buffer stage) 1. Aspirin Gastro-resistant Tablets 2. Loratidine tablets 3. Tramadol Hydrochloride tablets 4. Pioglitazone tablets	1. British Pharmacopoeia 2023 2. United State Pharmacopeia 2023 3. United State Pharmacopeia 2023 4. United State Pharmacopeia 2023
		Tablet Testing 1. Disintegration 2. Friability 3. Hardness/ Thickness/ Diameter 4. Weight	1. United State Pharmacopeia 2023 <701> 2. United State Pharmacopeia 2023<1216> 3. United State Pharmacopeia 2023 <1217> 4. British Pharmacopoeia 2023 (Appendix XII C)

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