

	<b>ACCREDITATION DOCUMENT</b>	<b>F-06/02</b> <b>Issue Date: 18/08/20</b> <b>Rev. No: 09</b> <b>LAB 039</b>
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## **Accreditation No: LAB 39**

**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 **11-03-2023**.

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**

01-01-2021  
Date

Sd  
Director General

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### Testing Laboratory.

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
		<b>Fatty Acid Composition</b>	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		
3. Cephadrine capsule <b>250-1000mg</b> (Pharma drug)	Pharmaceutical Testing	Amount of Cephadrine	United State Pharmacopeia 42 (Official Monograph/ Cephadrine890)
4. Water	Environmental Testing	<b>Concentration of Metals</b>	ASTM D1976
		Cr	
		Al	
		Ni	
		Mn	
		Ca	
		Pb	
		Mg	
		Fe	
B			

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	Environmental Testing	Cu Ag Sr Ba Bi Cd Co K Li Na Zn pH Conductivity	ASTM D1976  AOCS Official Method 973.40/ 11.1.02
5a. Corn , Milo, rice, grains and feeds	Grains Testing	Concentration of Aflatoxin	Vicam L.P Afla Test 4.6 Manual Instructions AOAC 991.31 method (Pg 34)
5b. Peanuts	Grains Testing	Concentration of Aflatoxin	AOAC 991.3/ 49.2.16, pg. 21
6. Xylene & Toluene (Organic chemicals)	Petroleum Testing	<b>Analysis of Xylene isomers</b>	ASTM D-7504
		<i>o</i> -Xylene	
		<i>p</i> -Xylene	
		<i>m</i> -Xylene	
		Ethylebenzene	
		<b>Toluene</b>	
7.Caffeine	Food Testing	Concentration of caffeine	United State Pharmacopeia 42 (Official Monograph/ Caffeine 646)
8.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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9. In Ready to drink items	Food Testing	Alcohol (Ethanol)	Journal of Food & Drug Analysis, Vol. 11, No. 2, 2003, Pages 133-140
10. Tablets/ Capsules	Pharmaceutical Testing	<b>Dissolution/ Tablet Testing (Acid stage and Buffer stage)</b>	
		1. Aspirin	British Pharmacopeia 2020 (Aspirin Preparation III-169)
		2. Loratidine tablets	United State Pharmacopeia 42 (Official Monograph/ Loratidine 2625)
		3. Tramadol Hydrochloride tablets	United State Pharmacopeia 42 (Official Monograph/ Tramadol 4409)
		4. Pioglitazone tablets	United State Pharmacopeia 42 (Official Monograph/ Pioglitazone 3528)
		<b>Tablet Testing</b> Disintegration Friability Hardness/ Thickness/ Diameter Weight	United State Pharmacopeia 42 <701> United State Pharmacopeia 42 <1216> United State Pharmacopeia 42 <1217> United State Pharmacopeia 42 <905>
11. 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.
12. 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.

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