

	<b>ACCREDITATION DOCUMENT</b>	<b>F-06/06</b> <b>Issue Date: 30-03-2017</b> <b>Rev. No: 01</b> <b>ML 022</b>
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**Accreditation No: ML 022**

**Awarded to**

**Clinical Laboratories, Mukhtar Ahmed Sheikh, Hospital,  
Main Khanewal Road,  
Multan, 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 **03-02-2022** by Pakistan National Accreditation Council.

The laboratory complies with the requirements of **ISO 15189:2012**.

The accreditation requires regular surveillance, and is valid until **02-02-2025**.

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 tests.

**PAKISTAN NATIONAL ACCREDITATION COUNCIL**

**03-02-2022**

**Date**

**-Sd-**

**Director General**

	<b>ACCREDITATION DOCUMENT</b>	<b>F-06/06</b> <b>Issue Date: 30-03-2017</b> <b>Rev. No: 01</b> <b>ML 022</b>
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### Medical Laboratory.

## Accreditation Scope of Clinical Laboratories, Mukhtar Ahmed Sheikh, Hospital, Main Khanewal Road, Multan, Pakistan.

Permanent laboratory premises

Field of Medical Testing Laboratory:-

Materials tested	Testing field (e.g. Chemical, Micro etc)	Types of test/ Properties measured	Reference to standardized method/ Internal method reference
Serum	Molecular Pathology	HCV Qualitative	Cobas 4800 (Cobas Ampliprep/ Cobas Taqman)
Urine	Microbiology	Urine Culture	Manual Method/ CLSI
Blood		Blood Culture	Manual Method / CLSi
Whole Blood	Haematology	WBC (TLC)	Mindray 6000
Whole Blood		RBC	Mindray 6000
Whole Blood		MCV	Mindray 6000
Whole Blood		MCHC	Mindray 6000
Whole Blood		MCH	Mindray 6000
Whole Blood		HCT	Mindray 6000
Whole Blood		Haemoglobin Hb	Mindray 6000
Whole Blood		RDW %	Mindray 6000
Whole Blood		Platelets	Mindray 6000
Plasma	Clinical Chemistry	Glucose	Cobas C311 (Hexokinase)
Serum		Albumin	Cobas C311 (BCG)
Serum		ALP	Cobas C311 (PNPP,AMP Buffer)
Serum		ALT	Cobas C311 (IFCC 2002 (without P5P) (3)
Serum		Amylase	Cobas C311 G7 PNP
Serum		AST	Cobas C311 (IFCC 2002 (without P5P) (3)
Serum		Bilirubin Total	Cobas C311 (DPD)
Serum		Bilirubin Direct	Cobas C311 (Diazo method.)
Serum		Bilirubin Indirect	Cobas C311 (Calculated)
Serum		Calcium	Cobas C311 (NM- BAPTA)

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-Sd-

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**F-06/06**  
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Serum	Clinical Chemistry	Cholesterol HDL	Cobas C311 (Direct Homogeneous)
Serum		Cholesterol Total	Cobas C311 Cholesterol Oxidase
Serum		CK	Cobas C311 CK-NAC IFCC
Serum		Creatinine	Cobas C311 (Jaffe rated blanked compensated)
Serum		Cholesterol LDL	Cobas C31 (Homogeneous enzymatic colorimetric assay.)
Serum		GGT	Cobas C311 (IFCC 2002 (3))
Serum		IRON	Cobas C311 (Precipitating Ferozine colorimetric)
Serum		LACTATE DEHYDROGENASE	Cobas C311 (L to P – IFCC)
Plasma		Lactate	Cobas C311 (Enzymatic Colorimetric)
Serum		LIPASE	Cobas C311 (Enzymatic, colorimetric)
Serum		MAGNESIUM	Cobas C311 (Xylidyl Blue)
Serum		PHOSPHORUS	Cobas C311 (Phosphomolybdate-UV)
Serum		POTASSIUM	Cobas C311 (ISE INDIRECT)
Serum		PROTEIN SERUM (TOTAL)	Cobas C311 (Bluret, serum blank, end point (3))
Serum		Chloride	Cobas C311 ISE INDIRECT
Serum		SODIUM	Cobas C311 ISE INDIRECT
Serum		TIBC	Cobas C311 (Calculated (UIBC& IRON))
Serum		TRIGLYCERIDES	Cobas C311 GPO-PAP
Serum		UREA	Cobas C311 calculated
Serum		BUN	Cobas C311 (Urease )(3)
Serum		UIBC	Cobas C311 (Ferozine)
Serum	URIC ACID	Cobas C311 Uricase, UV (3)	
Serum	Special Chemistry	T3 (TOTAL)	Cobas E411 Electrochemiluminescence (ECLIA)

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Serum		T4 (TOTAL)	Cobas E411 (Electrochemiluminescence (ECLIA))
Serum		TSH	Cobas E411 (Electrochemiluminescence (ECLIA))
Serum		FREE T3	Cobas E411 Electrochemiluminescence (ECLIA)

Serum	Special Chemistry	FREE T4	Cobas E411 (Electrochemiluminescence (ECLIA))
Plasma	Coagulation	Prothrombin Time	Mindray C3100
Plasma		INR	Mindray C3100
Plasma		APTT	Mindray C3100

03-02-2022

Date

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Director