



ACCREDITATION DOCUMENT

F-06/06
Issue Date: 30/03/2017
Rev. No: 01
LAB 009

Accreditation No: ML 009

Awarded to

**Dow Diagnostic Reference and Research Laboratory,
Karachi, 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 **19-11-2014** by Pakistan National Accreditation Council.

The laboratory complies with the requirements of **ISO 15189:2022**.

The accreditation requires regular surveillance, and is valid until **12-11-2026**.

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

02-01-2025
Date

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Director General



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Medical Laboratory.

**Accreditation Scope of M/s DOW DIAGNOSTIC REFERENCE AND RESEARCH
 LABORATORY, DOW UNIVERSITY OF HEALTH SCIENCES, KARACHI,
 PAKISTAN**

Permanent Address X:

Field of Medical Lab, Microbiology, Hematology, Molecular Pathology, Chemical Pathology
 and Histopathology

Materials/Products tested	Testing field (e.g. environmental testing or mechanical testing)	Types of test/ Properties measured	Reference to standardized method/ Internal method reference
Serum	Microbiology	Rubella IgG	Electrochemiluminescence immunoassay (ECLIA) / COBAS e601 Ref # 04618793 190
		Rubella IgM	Electrochemiluminescence immunoassay (ECLIA) / COBAS e601 Ref # 04618831 190
		Toxo IgG	Electrochemiluminescence immunoassay (ECLIA) / COBAS e601 Ref # 04618815 190
		Toxo IgM	Electrochemiluminescence immunoassay (ECLIA) / COBAS e601 Ref # 04618858 190
		CMV IgG	Electrochemiluminescence immunoassay (ECLIA) / COBAS e601 Ref # 07027117119
		CMV IgM	Electrochemiluminescence immunoassay (ECLIA) / COBAS e601 Ref # 07027133119
		EBV-EBNA 1 IGG	enzyme-linked immunosorbent assay (ELISA) EUROIMMUN/Manual

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-Sd-
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		EBV-CA IGG	enzyme-linked immunosorbent assay (ELISA) EUROIMMUN/Manual
		HIV Ag/Ab	Electrochemiluminescence immunoassay (ECLIA) / COBAS e601 International Standard NIBSC Ref# 05390095 190
		Anti-HBc II	Electrochemiluminescence immunoassay (ECLIA) / COBAS e601 International Standard NIBSC Ref# 07384764 119
Blood		Blood Culture System (Blood CS)	Process in BactAlert; If positive, follow SOPs and Policies under international guidelines
Whole Blood	Hematology	WBC	Flowcytometry Optical / Alinity-hq (Ref: 07P7904)
		RBC	Flow cytometry Optical / Alinity-hq
		Hb	Spectrophotometry / Alinity-hq (Ref: 07P8104)
		PCV	Alinity formula: RBC x MCV/ 10
		MCV	Flowcytometry Optical / Alinity-hq
		MCH	Alinity formula: Hb/RBCx10

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-Sd-

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		MCHC	Alinity formula: Hb/HCT x 100
		PLT	Flowcytometry Optical / Alinity-hq
Serum	Molecular Pathology	SARS-CoV-2 (Covid -19)	Abbott Molecular Alinity m REF:8N5302
		HBV Quantitative / Viral Load	Abbott Molecular Alinity m REF:8N5302
		HCV Quantitative / Viral Load	Abbott Molecular Alinity m REF:8N5302
		HCV Qualitative / Viral Load	Cobas 6800 System 05524245001
Serum & Plasma	Chemical Pathology	TSH • Quantitative • Serum • uIU/mL	<ul style="list-style-type: none"> • Chemiluminescence • Atellica Immunoassay 1600 • Thyroid Stimulating Hormone 3-Ultra (TSH3-UL) • REF#: 10995704
		Glucose • Quantitative • mg/dl • Plasma • Fluid	<ul style="list-style-type: none"> • Photometric • Atellica Chemistry 930 • Glucose Hexokinase_3 (Glu H_3) • REF# 11097592
		Total T3 • Quantitative • Serum • nmol/L	<ul style="list-style-type: none"> • Chemiluminescence • Atellica Immunoassay 1600 • Total Triiodothyronine (T3) • REF#: 10995678

02-01-2025

Date

-Sd-

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		Total T4 <ul style="list-style-type: none"> Quantitative Serum ug/dL 	<ul style="list-style-type: none"> Chemiluminescence Atellica Immunoassay 1600 Total Thyroxine (T4) REF#: 10995685
		Free T3 <ul style="list-style-type: none"> Quantitative Serum pg/mL 	<ul style="list-style-type: none"> Chemiluminescence Atellica Immunoassay 1600 Free Triiodothyronine (FT3) REF#: 10995584
		Free T4 <ul style="list-style-type: none"> Quantitative Serum ng/dL 	<ul style="list-style-type: none"> Chemiluminescence Atellica Immunoassay 1600 Free Thyroxine (FT4) REF#: 10995588
		Vitamin B2 <ul style="list-style-type: none"> Quantitative Serum pg/ml 	<ul style="list-style-type: none"> Chemiluminescence Atellica Immunoassay 1600 Vitamin B12 REF#: 10995714
		Vitamin D Total (25 OH) D2+D3 <ul style="list-style-type: none"> Quantitative Serum ng/mL 	<ul style="list-style-type: none"> Chemiluminescence Atellica Immunoassay 1600 Vitamin D Total REF#: 10995719
		Ferritin <ul style="list-style-type: none"> Quantitative Serum ng/mL 	<ul style="list-style-type: none"> Chemiluminescence Atellica Immunoassay 1600 Ferritin REF#: 10995568
		PSA Total <ul style="list-style-type: none"> Quantitative Serum ng/ml 	<ul style="list-style-type: none"> Chemiluminescence Atellica Immunoassay 1600 Prostate-Specific Antigen REF#: 10995663
		FSH <ul style="list-style-type: none"> Quantitative Serum mIU/ml 	<ul style="list-style-type: none"> Chemiluminescence Atellica Immunoassay 1600 Follicle Stimulating Hormone REF#: 10995581

		<p>LH</p> <ul style="list-style-type: none"> • Quantitative • Serum • mIU/ml 	<ul style="list-style-type: none"> • Chemiluminescence • Atellica Immunoassay 1600 • Luteinizing Hormone • REF#: 10995634
		<p>Urea/BUN</p> <ul style="list-style-type: none"> • Quantitative • mg/dl • Serum • Plasma 	<ul style="list-style-type: none"> • Photometric • Atellica Chemistry 930 • Urea Nitrogen • REF#: 11097593
		<p>Creatinine</p> <ul style="list-style-type: none"> • Quantitative • mg/dl • Serum • Plasma • Urine 	<ul style="list-style-type: none"> • Photometric • Atellica Chemistry 930 • Creatinine_2 • REF#: 1109759
		<p>Amylase</p> <ul style="list-style-type: none"> • Quantitative • U/L • Serum • Urine • Fluid 	<ul style="list-style-type: none"> • Photometric • Atellica Chemistry 930 • Amylase • 11097649
		<p>Lipase</p> <ul style="list-style-type: none"> • Quantitative • U/L • Serum • Urine • Fluid 	<ul style="list-style-type: none"> • Photometric • Atellica Chemistry 930 • Lipase • 11097606
		<p>Calcium</p> <ul style="list-style-type: none"> • Quantitative • mg/dL • Serum • Urine 	<ul style="list-style-type: none"> • Photometric • Atellica Chemistry 930 • Calcium • 11097644
		<p>Uric Acid</p> <ul style="list-style-type: none"> • Quantitative • mg/dL • Serum • Urine 	<ul style="list-style-type: none"> • Photometric • Atellica Chemistry 930 • Uric Acid • 11097608
		<p>Iron</p> <ul style="list-style-type: none"> • Quantitative • µg/dL • Serum 	<ul style="list-style-type: none"> • Photometric • Atellica Chemistry 930 • Iron_2 • REF#: 11097601

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		Total iron binding capacity TIBC <ul style="list-style-type: none"> • Quantitative • µg/dL • Serum 	<ul style="list-style-type: none"> • Photometric • Atellica Chemistry 930 • Total Iron Binding Capacity • REF#: 11097525
Tissue	Histopathology	H&E	The H&E stain uses two dyes: Hematoxylin and Eosin .This combination is used as the dyes stain different tissue elements Hematoxylin: Merk(C.L.75290) hematoxylin monohydrate Eosin: Merk(C.L45380) Eosin Y(Yellowish) Control slide: Any well fixed paraffin section