



ACCREDITATION DOCUMENT

F-06/06
Issue Date: 30-03-2017
Rev. No: 01
ML 001

Accreditation No: ML 001

Awarded to

Armed Forces Institute of Pathology (AFIP) Rawalpindi, 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 **28-03-2012** by Pakistan National Accreditation Council.

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

The accreditation requires regular surveillance, and is valid until **25-08-2022**.

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

26-08-2019

Date

Director General



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Medical Laboratory.

Accreditation Scope of Armed Forces Institute of Pathology (AFIP)
 Rawalpindi, 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
Plasma	Chemical Pathology	Glucose	Hexokinase/ Photometry/ Advia 1800
Serum		Urea	Urease with GLDH/ Advia 1800
Serum		Creatinine	Jaffe kinetic/ Advia 1800
Serum		ALT	Enzymatic kinetic/ Advia 1800
Serum		Total Bilirubin	Vanadate oxidation/ Advia 1800
Serum		Albumin	Bromocresol green/ Advia 1800
Serum		ALP	AMP /Advia 1800
Serum		Total Protein	Biuret Reaction/ Advia 1800
Serum		Calcium	Arsenazo III/ Advia 1800
Serum		LDH	Lactate -NAD method/ Advia 1800
Serum		Gamma Glutamyl Transferase	Modified IFCC/ Advia 1800
Plasma, serum		Sodium	ISE/ Cobas 221
Plasma, serum		Potassium	ISE/ Cobas 221
Serum		Cholesterol	Enzymatic/ Advia 1800
Serum		HDL	Direct HDL/ Advia 1800

Materials tested	Testing field (e.g. Chemical, Micro etc)	Types of test/ Properties measured	Reference to standardized method/ Internal method reference	
Serum		Magnesium	Xalidyl blue/ Advia 1800	
Serum		Phosphorous	Phosphomolybdate UV/ Advia 1800	
Serum		Triglycerides	Lipase/ GPO-PAP/ Advia 1800	
Serum		Uric Acid	Uricase- Peroxidase/ Advia 1800	
Serum		AST	Modified IFCC/ Advia 1800	
Serum		Creatinine Kinase	CK-NAC/ Advia 1800	
Whole blood		Haemoglobin A1c	Immuno-turbidimetry/ Advia 1800	
Serum		Amylase	Antibody blocked colorimetric amylase/ Advia 1800	
Serum		Lipase	Colorimetric rate/ Advia 1800	
Serum		Total Iron Binding Capacity	Sequential release and uptake of iron/ Advia 1800	
Serum		Iron	Ferrozine/ Advia 1800	
Serum		Endocrinology	T4	Chemiluminiscent immunoassay/ Advia Centaur
Serum			T3	Chemiluminiscent immunoassay/ Advia Centaur
Serum	TSH		Chemiluminiscent immunoassay/ Advia Centaur	
Serum	FSH		Chemiluminiscent immunoassay/ Advia Centaur	
Serum	LH		Chemiluminiscent immunoassay/ Advia Centaur	
Serum	Prolactin		Chemiluminiscent immunoassay/ Advia Centaur	
Serum	Progesterone		Chemiluminiscent immunoassay/ Advia Centaur	
Serum	Testosterone		Chemiluminiscent immunoassay/ Advia Centaur	

Materials tested	Testing field (e.g. Chemical, Micro etc)	Types of test/ Properties measured	Reference to standardized method/ Internal method reference
Serum		Estradiol	Chemiluminiscent immunoassay/ Advia Centaur
Serum		Ferritin	Chemiluminiscent enzyme immunoassay/ Immolute 2000
Serum		Cortisol	Chemiluminiscent enzyme immunoassay/ Immolute 2000
Serum		Growth Hormone	Chemiluminiscent enzyme immunoassay/ Immolute 2000
Plasma		Parathyroid Hormone	Chemiluminiscent enzyme immunoassay/ Immolute 2000
Serum DHEAS		DHEAS	Chemiluminiscent enzyme immunoassay/ Immolute 2000
Serum	Tumor Markers	Alpha fetoprotein	Chemiluminiscent immunoassay/ Advia Centaur
Serum		βhCG	Chemiluminiscent enzyme immunoassay/ Immolute 2000
Serum		Folic Acid	Chemiluminiscent enzyme immunoassay/ Immolute 2000
Serum		CA 125	Chemiluminiscent immunoassay/ Advia Centaur
Serum		Carcino-embryonic antigen	Chemiluminiscent enzyme immunoassay/ Immolute 2000
Serum		Prostate specific antigen	Chemiluminiscent immunoassay/ Advia Centaur
Serum		25 (OH)D (Vitamin D)	Chemiluminiscent enzyme immunoassay/ Immolute 2000
EDTA Blood	Haematology	WBC	XN-3000 (XN 1000x02)
EDTA Blood		RBC count	XN-3000 (XN 1000x02)
EDTA Blood		HB	XN-3000 (XN 1000x02)
EDTA Blood		HCT	XN-3000 (XN 1000x02)
EDTA Blood		PLT	XN-3000 (XN 1000x02)
EDTA Blood		MCV	XN-3000 (XN 1000x02)

Materials tested	Testing field (e.g. Chemical, Micro etc)	Types of test/ Properties measured	Reference to standardized method/ Internal method reference
EDTA Blood		MCH	XN-3000 (XN 1000x02)
Tri sodium citrate blood		PT	Sysmex CA 1500
Tri sodium citrate blood		aPTT	Sysmex
Tri sodium citrate blood		Fibrinogen	CA 1500
ETD A blood Hb studies		HbA	Mini Cap Sebia
ETD A blood		HbF	Mini Cap Sebia
Hb studies		HbA2	Mini Cap Sebia
Tissue biopsy material	Histopathology	H&E	<ol style="list-style-type: none"> 1. Trimming Path Gross station (Bio Optica) 2. Kugal grossing station 3. Grossing Station (Robus) 4. Tissue Tek VIP-5 Tissue Processer 5. Tissue Tek VIP-5 Tissue Processer 6. Tissue Tek VIP-6-A Tissue Processer 7. Sakura X-50 Rapid Tissue Processer 8. Rotary Microtome (Lub Tek) 9. Rotary Microtome (Lub Tek) 10. Rotary Microtome (Lub Tek) 11. Rotary Microtome (SMR-III) 12. Shandon Cryostate 13. Tissue Tek Auto Cover Slipper 14. Tissue Tek Auto Glass Cover Slipper 15. Incubator Electric Memert 16. Tissue Tek Auto Slides Stainor 17. Stop Watch 18. Electric Balance Machine 19. Refrigerator 20. Microscope
Tissue biopsy material	Histopathology	PAS	
Anti glomerular membrane (GBM) antibodies	Immunology	Positive / Negative	<ul style="list-style-type: none"> • Indirect immunofluorescence • ELISA

Materials tested	Testing field (e.g. Chemical, Micro etc)	Types of test/ Properties measured	Reference to standardized method/ Internal method reference
Monoclonal paraprotein		Present / Absent	Immunofixation Immunelectrophoresis
<ul style="list-style-type: none"> • Anti Neutrophil cytoplasmic antibodies (ANCA) • MPO • PR3 		Positive / Negative	<ul style="list-style-type: none"> • Indirect immunofluorescence • ELISA
Anti Cyclic citrulinated peptide Ab (CCP)		Positive / Negative	ELISA
IgE Total		Positive / Negative	ELISA
Anti Nuclear Ab		Positive / Negative	Indirect immunofluorescence
Anti ds DNA ab		Positive / Negative	Indirect immunofluorescence
Anti Centromere Ab		Positive / Negative	Indirect immunofluorescence
Anti Extractable Nuclear antigen Antibodies		Positive / Negative	<ul style="list-style-type: none"> • ELISA • Immunoblot
<ul style="list-style-type: none"> • Anti Endomyseal Ab IgA • Anti Endomyseal Ab IgG 		Positive / Negative	Indirect immunofluorescence
Anti Tissue Transglutaminase Ab IgA		Positive / Negative	ELISA
Stool / Urine	Microbiology	Occult blood Parasite/ Ova/Cyst detection Stool Re Urine RE	<ol style="list-style-type: none"> 1. Digital Water Bath W-350 2. Centrifuge MF-600 3. DIRUI FUS 2000 Urinary Analysis 4. Microscope Cx21
Mycobacterium Culture		ZN staining Mycobacterial culture and sensitivity testing	<ol style="list-style-type: none"> 1. Incubator Cap 28 Ltr 2. Biological safety Cabinet Ci II 3. Centrifuge Z-513 4. Bactec MGIT 960 5. Multihead Microscope 6. Bactec MGIT 320 7. Cold Storage Caravell

Materials tested	Testing field (e.g. Chemical, Micro etc)	Types of test/ Properties measured	Reference to standardized method/ Internal method reference
Bacterial Culture		Gram staining Bacterial culture and antimicrobial sensitivity testing	1. Bactec 9120 system 2. Dual Head Microscope 3. Bact Alert 3D 4. Digital Thermometer Refrigerator Dawalance 5. Viteck 2
Fungal Culture		KOH Slides Fungal culture of clinical specimens	1. Biological safety Cabinet Ci II 2. Digital Cool Incubator ESI120 3. Digital Cool Incubator Robus 4. Digital Thermometer Refrigerator Dawalance 5. Multihead Microscope 6. Micropipette AxyGen (100-10000ul) 7. Temperature Hygrometer
Serum	Virology	HBsAg	ELISA
Serum		Anti HCV	ELISA
Serum		HIV	ELISA
Serum		Anti HBc	ELISA
Serum		HAV IgM	ELISA
Serum		HBeAg	ELISA
Serum		HBeAb	ELISA
Serum		Anti HBs	ELISA

26-08-2019
Date

Director