

	ACCREDITATION DOCUMENT	F-06/02 Issue Date: 18/08/2020 Rev. No: 09 LAB 000
---	-----------------------------------	---

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 **23-08-2025**.

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 measurements/tests.

PAKISTAN NATIONAL ACCREDITATION COUNCIL

21-03-2023
Date

SD
Director General



ACCREDITATION DOCUMENT

F-06/02
Issue Date: 18/08/2020
Rev. No: 09
LAB 000

Testing Laboratory.

Accreditation Scope of Armed Forces Institute of Pathology (AFIP)
Rawalpindi, Pakistan

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
Plasma	Chemical Pathology	Glucose	Hexokinase/ Photometry/ Advia 1800
Serum	Chemical Pathology	Urea	Urease with GLDH/ Advia 1800
Serum	Chemical Pathology	Creatinine	Jaffe kinetic/ Advia 1800
Serum	Chemical Pathology	ALT	Enzymatic kinetic/ Advia 1800
Serum	Chemical Pathology	Total Bilirubin	Vanadate oxidation/ Advia 1800
Serum	Chemical Pathology	Albumin	Bromocresol green/ Advia 1800

21-03-2023

Date

Sd

Director



**ACCREDITATION
DOCUMENT**

F-06/02
Issue Date: 18/08/2020
Rev. No: 09
LAB 000

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
Serum	Chemical Pathology	ALP	AMP /Advia 1800
Serum	Chemical Pathology	Total Protein	Biuret Reaction/ Advia 1800
Serum	Chemical Pathology	Calcium	Arsenazo III/ Advia 1800
Serum	Chemical Pathology	LDH	Lactate -NAD method/ Advia 1800
Serum	Chemical Pathology	Gamma Glutamyl Transferase	Modified IFCC/ Advia 1800
Plasma, serum	Chemical Pathology	Sodium	ISE/ Cobas 221
Plasma, serum	Chemical Pathology	Potassium	ISE/ Cobas 221
Serum	Chemical Pathology	Cholesterol	Enzymatic/ Advia 1800

21-03-2023

Date

Sd

Director



**ACCREDITATION
DOCUMENT**

F-06/02
Issue Date: 18/08/2020
Rev. No: 09
LAB 000

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
Serum	Chemical Pathology	HDL	Direct HDL/ Advia 1800
Serum	Chemical Pathology	Magnesium	Xalidyl blue/ Advia 1800
Serum	Chemical Pathology	Phosphorous	Phosphomolybdate UV/ Advia 1800
Serum	Chemical Pathology	Triglycerides	Lipase/ GPO-PAP/ Advia 1800
Serum	Chemical Pathology	Uric Acid	Uricase- Peroxidase/ Advia 1800
Serum	Chemical Pathology	AST	Modified IFCC/ Advia 1800
Serum	Chemical Pathology	Creatinine Kinase	CK-NAC/ Advia 1800
Whole blood	Chemical Pathology	Haemoglobin A1c	Immuno-turbidimetry/ Advia 1800

21-03-2023

Date

Sd

Director



**ACCREDITATION
DOCUMENT**

F-06/02
Issue Date: 18/08/2020
Rev. No: 09
LAB 000

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
Serum	Chemical Pathology	Amylase	Antibody blocked colorimetric amylase/ Advia 1800
Serum	Chemical Pathology	Lipase	Colorimetric rate/ Advia 1800
Serum	Chemical Pathology	Total Iron Binding Capacity	Sequential release and uptake of iron/ Advia 1800
Serum	Chemical Pathology	Iron	Ferrozine/ Advia 1800
Serum	Immunoassay	T4	Chemiluminiscent immunoassay/ Advia Centaur
Serum	Immunoassay	T3	Chemiluminiscent immunoassay/ Advia Centaur
Serum	Immunoassay	TSH	Chemiluminiscent immunoassay/ Advia Centaur
Serum	Immunoassay	FSH	Chemiluminiscent immunoassay/ Advia Centaur

21-03-2023

Date

Sd

Director



**ACCREDITATION
DOCUMENT**

F-06/02
Issue Date: 18/08/2020
Rev. No: 09
LAB 000

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
Serum	Immunoassay	LH	Chemiluminiscent immunoassay/ Advia Centaur
Serum	Immunoassay	Prolactin	Chemiluminiscent immunoassay/ Advia Centaur
Serum	Immunoassay	Progesterone	Chemiluminiscent immunoassay/ Advia Centaur
Serum	Immunoassay	Testosterone	Chemiluminiscent immunoassay/ Advia Centaur
Serum	Immunoassay	Estradiol	Chemiluminiscent immunoassay/ Advia Centaur
Serum	Immunoassay	Ferritin	Chemiluminiscent enzyme immunoassay/ Immulite 2000
Serum	Immunoassay	Cortisol	Chemiluminiscent enzyme immunoassay/ Immulite 2000
Serum	Immunoassay	Growth Hormone	Chemiluminiscent enzyme immunoassay/ Immulite 2000

21-03-2023

Date

Sd

Director



**ACCREDITATION
DOCUMENT**

F-06/02
Issue Date: 18/08/2020
Rev. No: 09
LAB 000

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
Plasma	Immunoassay	Parathyroid Hormone	Chemiluminiscent enzyme immunoassay/ Immulite 2000
Serum DHEAS	Immunoassay	DHEAS	Chemiluminiscent enzyme immunoassay/ Immulite 2000
Serum	Immunoassay	Alpha fetoprotein	Chemiluminiscent immunoassay/ Advia Centaur
Serum	Immunoassay	β hCG	Chemiluminiscent enzyme immunoassay/ Immulite 2000
Serum	Immunoassay	Folic Acid	Chemiluminiscent enzyme immunoassay/ Immulite 2000
Serum	Immunoassay	CA 125	Chemiluminiscent immunoassay/ Advia Centaur
Serum	Immunoassay	Carcino-embryonic antigen	Chemiluminiscent enzyme immunoassay/ Immulite 2000
Serum	Immunoassay	Prostate specific antigen	Chemiluminiscent immunoassay/ Advia Centaur

21-03-2023

Date

Sd

Director



**ACCREDITATION
DOCUMENT**

F-06/02
Issue Date: 18/08/2020
Rev. No: 09
LAB 000

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
Serum	Immunoassay	25 (OH)D (Vitamin D)	Chemiluminiscent enzyme immunoassay/ Immulite 2000
EDTA Blood	Haematology	WBC	XN-3000 (XN 1000x02)
EDTA Blood	Haematology	RBC count	XN-3000 (XN 1000x02)
EDTA Blood	Haematology	HB	XN-3000 (XN 1000x02)
EDTA Blood	Haematology	HCT	XN-3000 (XN 1000x02)
EDTA Blood	Haematology	PLT	XN-3000 (XN 1000x02)
EDTA Blood	Haematology	MCV	XN-3000 (XN 1000x02)
EDTA Blood	Haematology	MCH	XN-3000 (XN 1000x02)

21-03-2023

Date

Sd

Director



**ACCREDITATION
DOCUMENT**

F-06/02
Issue Date: 18/08/2020
Rev. No: 09
LAB 000

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
Tri sodium citrate blood	Haematology	PT	Sysmex CA 1500
Tri sodium citrate blood	Haematology	aPTT	Sysmex
Tri sodium citrate blood	Haematology	Fibrinogen	CA 1500
ETD A blood Hb studies	Haematology	HbA	Mini Cap Sebia
ETD A blood	Haematology	HbF	Mini Cap Sebia
Hb studies	Haematology	HbA2	Mini Cap Sebia
Tissue biopsy material	Histopathology	H&E	Trimming Path Gross station (Bio Optica) 2. Kugal grossing station 3. Grossing Station (Robus) 4. Tissue Tek VIP-5 Tissue Processor 5. Tissue Tek VIP-5 Tissue

21-03-2023

Date

Sd

Director



**ACCREDITATION
DOCUMENT**

F-06/02
Issue Date: 18/08/2020
Rev. No: 09
LAB 000

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
			Processor
Tissue biopsy material	Histopathology	PAS	<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 Processor 5. Tissue Tek VIP-5 Tissue Processor 6. Tissue Tek VIP-6-A Tissue Processor 7. Sakura X-50 Rapid Tissue Processor 8. Rotary Microtome (Lub Tek) 9. Rotary Microtome (Lub Tek) 10. Rotary Microtome (Lub Tek) 11. Rotary Microtome (SMR-III) 12. Shandon Cryostat 13. Tissue Tek Auto Cover Slipper

21-03-2023

Date

Sd

Director



**ACCREDITATION
DOCUMENT**

F-06/02
Issue Date: 18/08/2020
Rev. No: 09
LAB 000

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
			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
Anti glomerular membrane (GBM) antibodies	Immunology	Positive / Negative	Indirect immunofluorescence ELISA
Materials tested	Immunology	Types of test/ Properties measured	Reference to standardized method/ Internal method reference
Monoclonal paraprotein	Immunology	Present / Absent	Immunofixation Immunoelectrophoresis
<input type="checkbox"/> Anti Neutrophil cytoplasmic antibodies (ANCA) <input type="checkbox"/> MPO <input type="checkbox"/> PR3	Immunology	Positive / Negative	Indirect immunofluorescence ELISA

21-03-2023

Date

Sd

Director



ACCREDITATION DOCUMENT

F-06/02
Issue Date: 18/08/2020
Rev. No: 09
LAB 000

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
Anti Cyclic citrulinated peptide Ab (CCP)	Immunology	Positive / Negative	ELISA
IgE Total	Immunology	Positive / Negative	ELISA
Anti Nuclear Ab	Immunology	Positive / Negative	Indirect immunofluorescence
Anti ds DNA ab	Immunology	Positive / Negative	Indirect immunofluorescence
Anti Centromere Ab	Immunology	Positive / Negative	Indirect immunofluorescence
Anti Extractable Nuclear antigen Antibodies	Immunology	Positive / Negative	ELISA Immunoblot
<input type="checkbox"/> Anti Endomyseal Ab IgA <input type="checkbox"/> Anti Endomyseal Ab IgG	Immunology	Positive / Negative	Indirect immunofluorescence

21-03-2023

Date

Sd

Director



**ACCREDITATION
DOCUMENT**

F-06/02
Issue Date: 18/08/2020
Rev. No: 09
LAB 000

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
Anti Tissue Transglutaminase Ab IgA	Immunology	Positive / Negative	ELISA
Stool / Urine	Microbiology	Occult blood Parasite/ Ova/Cyst detection Stool Re Urine RE	1. Digital Water Bath W-350 2. Centrifuge MF-600 3. DIRUI FUS 2000 (Urinary Analysis) 4. Microscope Cx21
Mycobacterium Culture	Microbiology	ZN staining Mycobacterial culture and sensitivity testing	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
Bacterial Culture	Microbiology	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

21-03-2023

Date

Sd

Director



**ACCREDITATION
DOCUMENT**

F-06/02
Issue Date: 18/08/2020
Rev. No: 09
LAB 000

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
Fungal Culture	Microbiology	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	Virology	Anti HCV	ELISA
Serum	Virology	HIV	ELISA
Serum	Virology	Anti HBc	ELISA

21-03-2023

Date

Sd

Director



**ACCREDITATION
DOCUMENT**

F-06/02
Issue Date: 18/08/2020
Rev. No: 09
LAB 000

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
Serum	Virology	HAV IgM	ELISA
Serum	Virology	HBeAg	ELISA
Serum	Virology	HBeAb	ELISA
Serum	Virology	Anti HBs	ELISA

21-03-2023

Date

Sd

Director