

	<b>ACCREDITATION DOCUMENT</b>	<b>F-06/02</b> <b>Issue Date: 18/08/2020</b> <b>Rev. No: 09</b> <b>LAB 127</b>
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## Accreditation No: LAB 127

### Awarded to

**Firearms and Toolmarks, Questioned Documents, Latent Fingerprints, DNA & Serology,  
 Toxicology and Narcotics Testing Laboratories,  
 Punjab Forensic Science Agency (PFSA),  
 Old Multan Road, Thokar Niaz Baig,  
 Lahore, 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 **02-11-2017** 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 **01-11-2023**.

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**

30-04-2022  
 Date

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 SD  
 Director General

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### Testing Laboratory.

Accreditation Scope of Firearms and Toolmarks, Questioned Documents, Latent Fingerprints, DNA & Serology, Toxicology and Narcotics Testing Laboratories, of M/S Punjab Forensic Science Agency (PFSA), Old Multan Road, Thokar Niaz Baig, Lahore, 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
<b>Firearms and Toolmarks Testing Laboratory</b>			
Cartridge cases, bullets/shot shell cases	Physical test	Comparison test	FTM Procedure for “Microscopic Comparisons” SOP # 11
Engine, chassis of vehicles/firearm/ other	Physical test	Serial number restoration	FTM Procedure for “Serial Number Restoration” SOP # 14
Firearms	Physical test	Functionality test	FTM Procedure for “Physical Examination and Classification of Firearms” SOP # 7.0
Victim clothing / vehicles/other	Physical test	Gunshot residue/distance determination test	FTM Procedure for “Distance Determination and Bullet Holes” SOP # 12.0
<b>Questioned Documents Testing Laboratory</b>			
Questioned Documents	Physical test	Examination of Handwritten Items including handwriting and signatures (Urdu and English)	QD Procedure for “Examination of Handwritten Items”. SOP # 31.0

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Questioned Documents	Physical test	Non-destructive Examination of Inks	QD Procedure for “Non-Destructive Ink Examination” SOP # 29.0
Questioned Documents	Physical test	Examination of Alterations, Obliterations and Erasures	QD Procedure for “Alterations, Obliterations and Erasures Examination”. SOP # 30.0
Questioned Documents	Physical test	Decipherment of Indented Impressions on paper	QD Procedure for “Indentation Examination”. SOP # 32.0
<b>Latent Fingerprints Testing Laboratory</b>			
Any substrate (porous, non-porous or semi porous) suspected to contain latent prints	Physical and/or Chemical test	Development/ Processing of latent prints	LFP Procedures <ul style="list-style-type: none"> <li>• Ninhydrin – Porous Items SOP # 23</li> <li>• Powders SOP # 25</li> <li>• Small particle reagent SOP # 26</li> <li>• Cyanoacrylate fuming SOP # 27</li> <li>• Acid yellow 7 SOP # 28</li> <li>• Rhodamine 6G SOP # 29</li> <li>• Amido black SOP # 32</li> <li>• Gentian violet SOP # 33</li> <li>• Sticky side powder technique SOP # 34</li> <li>• 1,2-Indanedione-zinc – Porous Items SOP # 24</li> <li>• Basic yellow 40 – Non-Porous Items SOP # 36</li> <li>• Digital image enhancement SOP # 22</li> </ul>
Latent or patent prints	Physical test	Comparison	LFP Procedure for “Friction Ridge Examination” SOP # 37

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Friction ridge skin of living or dead individuals	Physical test	Recording the living and post mortem friction ridge exemplars	LFP Procedure for “Recording Living and Post Mortem Friction Ridge Exemplars”. SOP # 35
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## DNA & Serology Testing Laboratory

Human body fluids (blood, semen, saliva)	Biological test	Serology testing	Serology SOPs: <ul style="list-style-type: none"> <li>• Kastle Meyer test SOP # 8.1</li> <li>• Seratec HemDirect test SOP # 8.2</li> <li>• Ouchterlony double immunodiffusion test SOP # 8.3</li> <li>• Two part acid phosphatase test SOP # 9.1</li> <li>• Seratec PSA semi quant test SOP # 9.3</li> <li>• Kernechtrot-picroidigocarmine test for sperm microscopy SOP # 9.4</li> <li>• Amylase diffusion test for saliva SOP # 10.1</li> <li>• Seratec alpha amylase test for saliva SOP # 10.2</li> </ul>
Human body fluids (blood, semen, saliva and tissues)	Biological test	DNA Extraction	DNA SOPs 8.0 (DNA Extraction)

## Toxicology Testing Laboratory

Blood / Urine	Chemical Test	Levels of Ethanol, Methanol, Acetone, Isopropanol, n-Propanol	Quantitation of Volatiles by Head-Space Gas Chromatography SOP # 26.0
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Blood, Urine and Liver homogenate	Chemical Test	Screening for drugs of abuse (benzodiazepines and Opiates)	Screening of Drugs of Abuse by ELISA (Enzyme Linked Immunoassay) SOP # 25.0
Gastric contents	Chemical Test	Screening for Cyanide & Phosphine	Colorimetric Screening of Cyanide and Phosphine by using Conway Microdiffusion Cells. SOP # 27.0
Gastric contents	Chemical Test	Confirmation of phosphine	Confirmation of Phosphine by Headspace Gas Chromatography-Nitrogen Phosphorous Detector Technique SOP # 33.0
Blood, Urine, Liver homogenate, Gastric contents and Hair	Chemical Test	Screening for range of drugs and pesticides	Identification of Drugs and Poison by Modified QuEChERS Extraction and Subsequent Analysis on GCMS SOP # 32.0
Blood, Urine and Liver homogenate	Chemical Test	Confirmation & Quantitation of Benzodiazepines	Confirmation and Quantitation of Benzodiazepines by GCMS SOP # 22.0
Blood, Urine, Liver homogenate	Chemical Test	Confirmation & Quantitation of Opiates and related drugs	Confirmation and Quantitation of Opiates and Related Drugs by GCMS SOP # 29.0
Blood and Gastric contents	Chemical Test	Qualitative detection of para-phenylenediamine (PPD)	Colorimetric Screening of Para-phenylenediamine (PPD) SOP # 28.0
Blood	Chemical Test	Qualitative detection of carbon monoxide	Carbon monoxide Confirmation by Palladium Chloride Microdiffusion Technique SOP # 34.0

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**Narcotics Testing Laboratory**

Narcotic and Psychotropic Substances (Seized Material)	Chemical testing	Qualitative Identification of Narcotic and Psychotropic Substances	<ul style="list-style-type: none"><li>• Procedure for Chemical Spot Tests, SOP # 15.0</li><li>• Procedure for Analysis Using GCMS SOP # 17.0</li><li>• Procedure for Analysis Using FITR, SOP # 18.0</li></ul>
Narcotic and Psychotropic Substances (Seized Material)	Physical test	Mass Determination	Procedure for Mass Determination, SOP # 13.0

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