



ANSI National Accreditation Board

**SCOPE OF ACCREDITATION TO:
ISO/IEC 17025:2017
Accreditation Requirements for Forensic Testing and Calibration (2023)
FBI Quality Assurance Standards for Forensic DNA Testing Laboratories:2020**

**Virginia Department of Forensic Science
Western Laboratory
6600 Northside High School Road
Roanoke, Virginia 24019 USA**

FORENSIC TESTING

Expiry Date: 30 September 2026

Certificate Number: FT-0054

Discipline: Biology		
Component/Parameter	Item	Key Equipment/Technology
DNA Profile Determination	Short Tandem Repeat (STR) Y-Short Tandem Repeat (Y-STR)	Capillary Electrophoresis
Individual Characteristic Database	DNA Profile	National DNA Index System (NDIS)
Physical Comparison	DNA Profile	Software Program
Qualitative Determination	Body Fluid	Chemical Fluorescence Spectroscopy General Microscopy Immunoassay

Discipline: Fire Debris and Explosives		
Component/Parameter	Item	Key Equipment/Technology
Chemical/Physical Comparison	Fire Debris Fractured Item	Gas Chromatography General Microscopy Imaging Mass Spectrometry Visual
Qualitative Determination	Fire Debris	Gas Chromatography Mass Spectrometry

Discipline: Firearms and Toolmarks		
Component/Parameter	Item	Key Equipment/Technology
Distance Determination	Firearm Physical Item	Chemical General Microscopy Measuring Equipment
Function Evaluation	Air Gun Firearm Tool	Force Gauge Measuring Equipment Visual
Individual Characteristic Database	Ammunition	National Integrated Ballistic Information Network (NIBIN)
Physical Comparison	Ammunition Tool/Toolmark	General Microscopy Software Program Visual
Qualitative Determination	Ammunition Firearm Metal Nitrate/Nitrite Tool	Chemical General Microscopy Reference Collection
Serial Number Restoration	Physical Item	Chemical General Microscopy Magnetic Visual

Discipline: Friction Ridge		
Component/Parameter	Item	Key Equipment/Technology
Enhancement	Ridge Detail	Chemical Physical Software Program
Individual Characteristic Database	Ridge Detail	Next Generation Identification System (NGI)
Physical Comparison	Ridge Detail	Software Program Visual

Discipline: Impressions		
Component/Parameter	Item	Key Equipment/Technology
Enhancement	Footwear Tire	Chemical Physical Software Program
Physical Comparison	Footwear Tire	Software Program Visual
Qualitative Determination	Footwear Tire	Reference Collection


Discipline: Materials (Trace)		
Component/Parameter	Item	Key Equipment/Technology
Chemical/Physical Comparison	Coating Fractured Item General Unknown Glass Polymer	Chemical Gas Chromatography General Microscopy Infrared Spectroscopy Mass Spectrometry Refractometry Visual
Qualitative Determination	Coating Filament General Unknown Glass Polymer	Chemical Gas Chromatography General Microscopy Infrared Spectroscopy Mass Spectrometry Reference Collection Refractometry Visual
Reconstruction	Physical Item	Not Applicable

Discipline: Seized Drugs		
Component/Parameter	Item	Key Equipment/Technology
Qualitative Determination	Botanical Liquid Solid	Chemical Gas Chromatography General Microscopy Infrared Spectroscopy Liquid Chromatography Mass Spectrometry Thin-Layer Chromatography Visual
Quantitative Measurement	Botanical Liquid Solid	Gas Chromatography Liquid Chromatography Mass Spectrometry
Weight Measurement	Botanical Liquid Solid	Balance

Discipline: Toxicology		
Component/Parameter	Item	Key Equipment/Technology
Qualitative Determination	Ante-Mortem Biological Item Post-Mortem Biological Item	Electrochemical Gas Chromatography Immunoassay Liquid Chromatography Mass Spectrometry Microdiffusion

		Ultraviolet Spectroscopy Visible Spectroscopy
Qualitative Determination (Volatiles)	Ante-Mortem Biological Item Post-Mortem Biological Item	Gas Chromatography Mass Spectrometry
Quantitative Measurement	Ante-Mortem Biological Item Post-Mortem Biological Item	Gas Chromatography Liquid Chromatography Mass Spectrometry
Quantitative Measurement (Volatiles)	Ante-Mortem Biological Item Post-Mortem Biological Item	Gas Chromatography

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