

A Notice to Our Customers

When submitting evidence to the Johnson County Sheriff's Office Criminalistics Laboratory, we will select the most appropriate method for the examination (unless otherwise specified by the submitting agency).

Below you will find a summarized list of the methods used in our laboratory:

Biology/DNA:

- Presumptive tests for biological materials (full list available upon request)
- Alternate light source
- DNA extraction (Maxwell 16 – DNA IQ Extraction)
- DNA quantification (human and male)
- PCR DNA analysis including STRs (Fusion 6C) and Y-STRs (Yfiler)
- ABI Prism 3500 Genetic Analyzer
- DNA data analysis (GeneMapper ID-X)
- CODIS

Crime Scene Investigation & Bloodstain Pattern Analysis:

- Photography (digital, ultraviolet, and infrared)
- Computer diagramming, GPS data collection, and 3D laser scanning (Leica ScanStation PS40 and C10)
- Presumptive chemical development/processing methods for biological materials (full list available upon request)
- Fingerprint processing methods including powder and chemical (full list available upon request)
- Alternate light source
- Metal detector
- Death investigation
- Persons processing (deceased and living)
- Bloodstain pattern analysis and reconstruction
- Shooting incident documentation and reconstruction

Controlled Substances:

- Color tests (full list available upon request)
- Gas Chromatography/Mass Spectrometry
- Fourier Transform Infrared Spectroscopy

Digital/Multimedia Evidence:

- Data preservation (write blockers, hashing, secure storage)
- Video analysis (acquisition, playback optimization, capture, clarification)
- Computer forensics (extraction, analysis)
- Portable media devices (extraction, analysis, unlocking)
- A full list of currently validated tools and software is available upon request

Firearms/Toolmarks:

- Microscopy (comparison)
- Firearm functionality/operability testing
- Barrel/overall length measurement
- Muzzle-to-object gunshot residue distance determination
- NIBIN (entry and correlation)
- Serial number restoration (full list of reagents available upon request)

Latent Prints & Footwear/Tire Tracks (Impression Evidence):

- Fingerprint processing methods including powder, superglue, and chemical (full list available upon request)
- Alternate light source
- Digital image collection and processing
- AFIS (Kansas and Missouri)
- Next Generation Identification (formerly IAFIS)

Toxicology:

- Gas Chromatography/Flame Ionization Detector
- Gas Chromatography/Mass Spectrometry
- Enzyme-Linked Immunosorbent Assay (ELISA)

Trace Evidence & Fire Debris:

- Examination methods: hair, fiber, fabric/cordage, glass, paint, tape, fire debris, physical fit, condom lubricant, general chemical unknown
- Chemical tests (full list available upon request)
- Physical property measurements (full list available upon request)
- Microscopy (brightfield, polarized light, fluorescence, phase contrast, stereoscopic, comparison)
- Alternate light source
- Gas Chromatography/Mass Spectrometry
- Pyrolysis Gas Chromatography/Mass Spectrometry
- Fourier Transform Infrared Spectroscopy
- Glass Refractive Index Measuring System
- Microspectrophotometry
- X-Ray Fluorescence Spectrometry
- Scanning Electron Microscopy-Energy Dispersive Spectroscopy