

**Denver Police Department Crime Laboratory Bureau**  
**09-FQS-I-01**  
**Scope of Accreditation**

**Field of Testing: Forensic Science**

**Materials Tested**

<b>Category</b>	<b>Sub-Category/Activity</b>	<b>Analytical Techniques</b>
Controlled Substances	<ul style="list-style-type: none"> <li>• Controlled pharmaceuticals and illicit drugs               <ul style="list-style-type: none"> <li>○ Related chemicals and paraphernalia</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• 1.2, 1.3, 4.1, 5.1, 5.2.1, 5.3, 6.1, 7.0, 8.0</li> </ul>
	<ul style="list-style-type: none"> <li>• Botanical material</li> </ul>	<ul style="list-style-type: none"> <li>• 1.2, 5.2.1, 6.1, 7.1, 8.0</li> </ul>
Trace Chemistry-Flammables	<ul style="list-style-type: none"> <li>• Recovery</li> </ul>	<ul style="list-style-type: none"> <li>• 8.0</li> </ul>
	<ul style="list-style-type: none"> <li>• Identification</li> </ul>	<ul style="list-style-type: none"> <li>• 5.2.1</li> </ul>
Toxicology	<ul style="list-style-type: none"> <li>• Alcohol</li> </ul>	<ul style="list-style-type: none"> <li>• 4.1, 5.2.1, 6.1, 8.0</li> </ul>
Biology	<ul style="list-style-type: none"> <li>• Biological screening (body fluid id)</li> </ul>	<ul style="list-style-type: none"> <li>• 1.1, 1.2, 6.1, 8.0</li> </ul>
	<ul style="list-style-type: none"> <li>• DNA analysis in forensic casework               <ul style="list-style-type: none"> <li>○ CODIS</li> <li>○ Paternity/Familial relationships</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• 2.1.1, 2.1.2, 2.1.3, 2.2, 3.1, 8.0</li> </ul>
Trace materials	<ul style="list-style-type: none"> <li>• Chemistry               <ul style="list-style-type: none"> <li>○ Paint</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• 1.2, 1.3, 5.1, 5.2.1, 5.3, 5.4, 6.1, 7.0, 8.0</li> </ul>
	<ul style="list-style-type: none"> <li>• Hairs and fibers               <ul style="list-style-type: none"> <li>○ Fibers</li> <li>○ Hairs</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• 1.2, 1.3, 5.1, 6.1, 7.0, 8.0</li> </ul>
	<ul style="list-style-type: none"> <li>• Miscellaneous               <ul style="list-style-type: none"> <li>○ Glass</li> <li>○ Gun shot residue</li> <li>○ Explosives</li> <li>○ Tape</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• 1.2, 1.3, 4.2, 4.3, 5.1, 5.2.1, 5.3, 6.1, 7.0, 8.0</li> </ul>
Firearms/Toolmarks	<ul style="list-style-type: none"> <li>• Weapons               <ul style="list-style-type: none"> <li>○ Ammunition</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• 6.1, 6.2, 6.4, 7.1, 8.0</li> </ul>
	<ul style="list-style-type: none"> <li>• Toolmarks</li> </ul>	<ul style="list-style-type: none"> <li>• 6.1, 6.2, 6.4, 7.1, 8.0</li> </ul>
	<ul style="list-style-type: none"> <li>• Serial number restoration</li> </ul>	<ul style="list-style-type: none"> <li>• 7.1, 8.0</li> </ul>
	<ul style="list-style-type: none"> <li>• Database               <ul style="list-style-type: none"> <li>○ NIBIN</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• 6.2, 6.4, 8.0</li> </ul>
	<ul style="list-style-type: none"> <li>• Distance determination</li> </ul>	<ul style="list-style-type: none"> <li>• 6.1, 6.4, 8.0</li> </ul>
Latent Prints	<ul style="list-style-type: none"> <li>• Development</li> </ul>	<ul style="list-style-type: none"> <li>• 8.0</li> </ul>
	<ul style="list-style-type: none"> <li>• Comparison</li> </ul>	<ul style="list-style-type: none"> <li>• 6.3, 6.4, 8.0</li> </ul>
	<ul style="list-style-type: none"> <li>• Database               <ul style="list-style-type: none"> <li>○ AFIS</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• 6.3, 6.4, 8.0</li> </ul>
	<ul style="list-style-type: none"> <li>• Shoeprints/Tire Tread</li> </ul>	<ul style="list-style-type: none"> <li>• 6.1, 6.4, 8.0</li> </ul>

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**Analytical Techniques**

1.0 Chemical Screening Tests
1.1 Immunoassay
1.2 Color
1.3 Microchemical
2.0 Genetic Analysis
2.1 DNA-PCR
2.1.1 Autosomal STR
2.1.2 Y-STR
2.1.3 Real-time PCR
2.2 Data analysis
3.0 Electrophoresis
3.1 Capillary
4.0 Chromatography
4.1 Gas Chromatography
4.2 Liquid Chromatography
4.3 Thin Layer Chromatography
5.0 Spectroscopy
5.1 Infrared, UV, Visible, or Fluorescence
5.2 Mass spectrometry
5.2.1 GC/MS
5.3 X-ray
6.0 Physical Examination
6.1 Physical Measurements
6.2 Striation comparison
6.3 Friction ridge analysis
6.4 Pattern comparison, pattern recognition
7.0 Microscopy
7.1 Optical
7.2 Electron
8.0 General laboratory procedures