

South Dakota State Forensic Laboratory

08-FQS-I-04

Scope of Accreditation

Field of Testing: Forensic Testing

Materials

Category	Sub-Category/Activity	Analytical Techniques*
Biology	• Biological screening (body fluid id)	• 1.1, 1.2, 4.1, 6.0
	• DNA analysis in forensic casework	• 2.1.1, 2.2, 3.1, 6.0
	• DNA analysis for databasing ○ CODIS	• 2.1.1, 2.2, 3.1, 6.0
Digital and Multimedia Evidence	• Computer forensics	• 6.0
Firearms/Toolmarks	• Weapons ○ Ammunition	• 4.1, 5.1, 5.3, 5.4, 6.0
	• Toolmarks	• 4.1, 5.1, 5.3, 5.4, 6.0
	• Gunshot residue	• 4.2, 6.0
	• Serial number restoration	• 4.1, 6.0
	• Database ○ NIBIN	• 5.1, 5.3, 6.0
	• Distance determination	• 5.3, 5.4, 6.0
Latent Prints	• Development	• 6.0
	• Comparison	• 5.2, 5.3, 6.0
	• Database ○ AFIS	• 5.2, 5.3, 6.0

***Analytical Techniques**

1.0 Chemical Screening Tests 1.1 Immunoassay 1.2 Color
2.0 Genetic Analysis 2.1 DNA-PCR 2.1.1 Autosomal STR 2.2 Data analysis
3.0 Electrophoresis 3.1 Capillary
4.0 Microscopy 4.1 Optical 4.2 Electron
5.0 Physical Examination 5.1 Striation comparison 5.2 Friction ridge analysis 5.3 Pattern comparison, pattern recognition 5.4 Physical measurements (e.g., weight, volume, length, diameter, etc.)
6.0 General laboratory procedures