

ISP-Springfield Forensic Science Laboratory
Scope of Accreditation
07-FQS-I-09-SFSL

Field of Testing: Forensic Testing

Category	Sub Category	Analytical Techniques
Controlled Substances	<ul style="list-style-type: none"> • Controlled and non-controlled pharmaceuticals and illicit drugs <ul style="list-style-type: none"> ○ Related chemicals and paraphernalia 	• 1.2, 2.1, 2.2, 3.1, 3.2.1, 3.3, 5.1, 6.1, 6.2, 6.3, 6.4
	<ul style="list-style-type: none"> • Botanical material 	• 1.2, 2.1, 2.2, 3.2.1, 5.1, 6.1, 6.2, 6.4
Toxicology	<ul style="list-style-type: none"> • Alcohol/volatile analysis 	• 2.1, 6.4
	<ul style="list-style-type: none"> • Pharmaceuticals and poisons in human biological specimens 	• 1.1, 1.2, 1.3, 2.1, 2.3, 3.2.1, 3.2.2, 3.4, 6.3, 6.4
Biology	<ul style="list-style-type: none"> • Biological screening (body fluid id) 	• 1.1, 1.2, 4.1, 5.1, 6.4
	<ul style="list-style-type: none"> • DNA analysis in forensic casework 	• 6.4, 7.1.1, 7.1.2, 7.1.3, 7.2, 7.3, 8.1
	<ul style="list-style-type: none"> • DNA analysis for CODIS databasing 	• 6.4, 7.1.1, 7.2, 7.3, 8.1
Firearms/Toolmarks	<ul style="list-style-type: none"> • Firearms 	• 4.1, 4.3, 5.1, 6.1, 6.4
	<ul style="list-style-type: none"> • Ammunition 	• 4.1, 4.2, 5.1, 6.1, 6.4
	<ul style="list-style-type: none"> • Toolmarks 	• 4.1, 4.2, 5.1, 6.4
	<ul style="list-style-type: none"> • Physical security device 	• 4.1, 4.2, 5.1, 6.4
	<ul style="list-style-type: none"> • Database <ul style="list-style-type: none"> ○ NIBIN 	• 4.2, 4.4, 5.1, 6.4
	<ul style="list-style-type: none"> • Distance determination 	• 4.1, 4.5, 1.2, 6.4
	<ul style="list-style-type: none"> • Serial number restoration 	• 1.3, 5.1, 6.4
	<ul style="list-style-type: none"> • Footwear/Tiretracks 	• 4.1, 4.2, 4.5, 5.1, 6.4
Latent Prints	<ul style="list-style-type: none"> • Development 	• 1.2, 1.3, 6.4
	<ul style="list-style-type: none"> • Comparison 	• 4.5, 4.6, 5.1, 6.4
	<ul style="list-style-type: none"> • Database <ul style="list-style-type: none"> ○ AFIS 	• 4.4, 6.4
Questioned Documents	<ul style="list-style-type: none"> • Visual document examination <ul style="list-style-type: none"> ○ Handwriting comparisons 	• 4.1, 4.2, 4.5, 5.1, 6.4
	<ul style="list-style-type: none"> • Material analysis 	• 1.4, 4.1, 5.1, 6.4

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Trace Flammables	· Recovery	· 6.4
	· Identification	· 1.4, 2.1, 2.4, 3.1, 3.2.1, 4.5, 6.4
Trace Materials	· Chemistry <ul style="list-style-type: none"> ○ Explosives ○ Paints and polymers ○ Primer GSR 	· 1.2, 1.4, 2.1, 2.2, 3.1, 3.2.1, 3.5, 4.1, 4.5, 5.1, 5.2, 6.1, 6.2, 6.4
	· Miscellaneous <ul style="list-style-type: none"> ○ Lamp filament ○ Glass ○ Physical match ○ Misc. materials 	· 1.2, 1.3, 1.4, 2.1, 2.2, 3.1, 3.2.1, 3.5, 4.1, 4.2, 4.5, 5.1, 5.2, 6.1, 6.2, 6.4

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Analytical Techniques

1.0 Screening Tests
1.1 Immunoassay
1.2 Color
1.3 Other chemical tests
1.4 Solubility
2.0 Chromatography
2.1 Gas Chromatography
2.2 Thin Layer Chromatography
2.3 Liquid Chromatography
2.4 Column Chromatography
3.0 Spectroscopy
3.1 Infrared
3.2 Mass spectroscopy
3.2.1 GC/MS
3.2.2 LC/MS
3.3 Polarimetry
3.4 UV/visible
3.5 X-ray diffraction/fluorescence
4.0 Physical Examination
4.1 Physical measurements (e.g., length, volume, etc.)
4.2 Striation/impression/mark comparison
4.3 Performance evaluation
4.4 Population database comparison
4.5 Pattern recognition
4.6 Friction ridge analysis
5.0 Microscopy
5.1 Optical
5.2 SEM
6.0 General laboratory procedures
6.1 Weighing/mass/force determination
6.2 Sampling
6.3 Quantitation
6.4 General laboratory techniques

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7.0 Genetic Analysis
7.1 DNA-PCR
7.1.1 Autosomal STR
7.1.2 Y STR
7.1.3 Quantitation
7.2 Data analysis
7.3 Database comparison
8.0 Electrophoresis
8.1 Capillary