

Criminalistics Services Listing

DNA ANALYSIS			
ACODE	ACODE NAME & DESCRIPTION	ANALYTICAL METHOD(S) USED	ESTIMATED* TURN AROUND TIME
7300SL	Organic DNA Analysis Analysis of either a reference or a questioned sample in order to identify alleles in several genetic markers. See chart below for specific loci. Questioned sample may be blood, saliva, tissue, bone, or teeth.	DNA analysis by: • Applied BioSystems' Profiler Plus <i>ID</i> TM /COfiler TM Kit • Applied Biosystems' Identifier TM Kit • Promega's PowerPlex TM 16 Kit • Applied Biosystems' Minifiler Kit	4 weeks
7307SL	DNA Analysis, Half Profile Analysis of either a reference or a questioned sample in order to identify some of the loci included in the core 13 loci as defined by the FBI. The combination of both of the kits provides the full 13 core loci results. See chart below for specific loci. Questioned sample may be blood, saliva, tissue, bone, or teeth.	DNA analysis by: • Applied BioSystems' Profiler Plus <i>ID</i> TM or COfiler TM Kit	4 weeks
7301SL	Differential DNA Analysis Analysis of semen samples in order to identify alleles in several genetic markers. Includes DNA Analysis of mixtures, such as vaginal fluid and saliva. See chart below for specific loci.	DNA analysis by: • Applied BioSystems' Profiler Plus <i>ID</i> TM /COfiler TM Kit • Applied Biosystems' Identifier TM Kit • Promega's PowerPlex TM 16 Kit • Applied Biosystems' Minifiler Kit	4 weeks
7302SL	Organic DNA Extraction Only Organic extraction and purification of DNA from non-semen biological stains like blood, saliva, and skin, using phenol:chloroform:isoamyl alcohol (P:C:IA). This process yields a product ready for quantitation and amplification.		2 weeks
7303SL	Differential DNA Extraction Only Differential extraction and purification of DNA from semen stains using phenol:chloroform:isoamyl alcohol (P:C:IA). This process yields a product ready for quantitation and amplification.		2 weeks
7304SL	DNA Quantitation Only Quantitation of DNA for polymerase chain reaction (PCR) amplification. Assay is specific to human DNA and may be used to identify the presence of human DNA, regardless of the nature of the sample. Note: Sample must be extracted and purified prior to quantitation.	RT-PCR DNA Quantitation	1 week
7305SL	DNA Amplification and Analysis Only Amplification and analysis of amplified DNA product, including data analysis.	Polymerase chain reaction (PCR) amplification ABI Prism Genetic Analyzers (CE)	1 week
7306SL	Y-STR DNA Analysis Amplification and analysis of human male DNA only.	Promega's POWERPLEX Y TM amplification kit	4 weeks

	FBI CORE 13 LOCI FOR CODIS													Amelogenin	D2S1338	D19S433	Penta D	Penta E
	D3S1358	vWA	FGA	D8S1179	D21S11	D18S51	D5S818	D13S317	D7S820	D16S539	TH01	TPOX	CSF1PO					
Applied BioSystems' Profiler Plus <i>ID</i> TM	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Applied BioSystems' COfiler TM	X								X	X	X	X	X	X	X			
Applied BioSystems' Identifier TM	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Promega's PowerPlex TM 16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
Minifiler			X		X	X		X	X	X		X	X	X	X			

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* Turn around times vary based on actual cases. Contact the Crime Lab for more information (800) 522-6671.

Criminalistics Services Listing

SEROLOGY			
ACODE	ACODE NAME & DESCRIPTION	ANALYTICAL METHOD(S) USED	ESTIMATED* TURN AROUND TIME
7119SL	Blood Identification Identification of a substance as or containing blood.	Hemochromogen/Takayama crystal test	2 weeks
7121LI 7121SL	Single Origin-Of-Species Determination Identification of a substance as or containing proteins specific to a biological family or genus. Panel includes bear, cat, chicken, cow, dog, deer, horse, human, mouse, pig, rabbit, rat, or sheep.	Origin-of-species determination by: • double immunodiffusion/Ouchterlony • cross-over electrophoresis	2 weeks
7123LI 7123SL	Limited Origin-of-Species Determination Identification of a substance as or containing proteins specific to a biological family or genus. Analysis includes selection of five possible animals of interest. Panel includes bear, cat, chicken, cow, dog, deer, horse, human, mouse, pig, rabbit, rat, or sheep.	Origin-of-species determination by: • double immunodiffusion/Ouchterlony • cross-over electrophoresis	2 weeks
7122LI 7122SL	Multiple Origin-Of-Species Determination Identification of a substance as or containing proteins specific to a biological family or genus. Current panel includes bear, cat, chicken, cow, dog, deer, horse, human, mouse, pig, rabbit, rat, and sheep.	Origin-of-species determination by: • double immunodiffusion/Ouchterlony • cross-over electrophoresis	2 weeks
7120SL	Human Blood Identification Identification of a substance as or containing blood. Identification of a substance as or containing human proteins.	Hemochromogen/Takayama crystal test Origin-of-species determination by: • double immunodiffusion/Ouchterlony • cross-over electrophoresis	2 weeks
7430SL	Semen Identification Identification of a substance as or containing semen and/or spermatozoa.	P30/PSA identification by: • double immunodiffusion/Ouchterlony • cross-over electrophoresis Microscopic exam for spermatozoa	2 weeks
7435SL	Vaginal Fluid Characterization Characterization of a substance as or containing vaginal fluid by identifying glycogenated epithelial cells. Note: This test may not be able to identify vaginal fluid from prepubescent, post-menopausal, and menstruating females.	Lugol's stain	2 weeks
7410SL	Saliva Characterization Identification of a substance as or containing saliva.	Amylase starch diffusion Human alpha-amylase identification by: • double immunodiffusion/Ouchterlony	2 weeks
7460LI 7460SL	Urine Identification Identification of a substance as or containing urea and creatinine.	Urea/ammonia detection Creatinine detection/Jaffe test	2 weeks
7436SL	Fecal Material Characterization Characterization of a substance as or containing urobilinogen. Note: Urobilinogen is not unique to feces and may sometimes be absent in those individuals with liver dysfunction.	Odor test Urobilinogen test	2 weeks
7125LI	ABO Blood Typing – Whole Blood Analysis to determine the ABO blood type from whole blood. Sample must be fresh, in vials containing an anti-coagulant, and at least 1 mL in volume.	ABO forward and reverse typing	2 weeks
7124SL	ABO Blood Typing – Blood Stain Analysis to determine the ABO blood type from dried blood stains. Sample may be aged but must be at least 3x3 mm in size.	Absorption/elution Lattes crust test	2 weeks
7126SL	ABO Blood Typing – Non-blood Stain Analysis to determine the ABO blood type from dried non-blood stains like saliva, semen, and vaginal fluid.	Absorption/inhibition	2 weeks

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SEROLOGY CONTINUED			
ACODE	ACODE NAME & DESCRIPTION	ANALYTICAL METHOD(S) USED	ESTIMATED* TURN AROUND TIME
7291SL	Group I Isoenzyme Multisystem Analysis of up to 10 samples to identify polymorphic enzyme systems in: Esterase D (EsD) Phosphoglucomutase (PGM) Glyoxalase I (GloI) Note: Available for blood samples only.	Conventional electrophoresis	4 weeks
7292SL	Group II Isoenzyme Multisystem Analysis of up to 10 samples to identify polymorphic enzyme systems in: Erythrocyte acid phosphatase (EAP) Adenylate kinase (AK) Adenosine deaminase (ADA) 6-Phosphoglucohydrogenase (6-PGD) Note: Available for blood samples only.	Conventional electrophoresis	4 weeks
7293SL	Group III Isoenzyme Multisystem Analysis of up to 10 samples to identify polymorphic enzyme systems in: Carbonic anhydrase II (CAII) Peptidase A (PepA) Glucose-6-phosphate dehydrogenase (G6PD) Note: Available for blood and semen samples.	Conventional electrophoresis	4 weeks
7294SL	Group IV Isoenzyme Multisystem Analysis of up to 10 samples to identify polymorphic enzyme systems in: Carbonic anhydrase II (CAII) Peptidase A (PepA) Glucose-6-phosphate dehydrogenase (G6PD) Note: Available for blood and semen samples.	Conventional electrophoresis	4 weeks
7290SL	PGM Subtyping Analysis of up to 10 samples to identify subtypes of phosphoglucomutase (PGM). Note: Available for blood and semen samples.	Conventional electrophoresis	4 weeks

KIT ANALYSIS			
ACODE	ACODE NAME & DESCRIPTION	ANALYTICAL METHOD(S) USED	ESTIMATED* TURN AROUND TIME
7090SL	Sexual Assault Victim Evidence Collection Kit Examination Examination and preservation of reference blood and saliva. Identification of semen and/or spermatozoa on vaginal, oral, and/or rectal swabs (as applicable). Identification of spermatozoa on vaginal, oral, and/or rectal slides (as applicable).	Acid phosphatase spot test P30/PSA identification by: <ul style="list-style-type: none"> • double immunodiffusion/Ouchterlony • cross-over electrophoresis Microscopic exam for spermatozoa	2 weeks
7091SL	Reference Collection Kit Examination Examination and preservation of reference blood and saliva.		2 weeks

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DRUG IDENTIFICATION			
ACODE	ACODE NAME & DESCRIPTION	ANALYTICAL METHOD(S) USED	ESTIMATED* TURN AROUND TIME
7201LI 7201SL	Controlled Substances and Pharmaceuticals Panel Identification of Narcotics, Analgesics, Local Anesthetics, Depressants, Stimulants Hallucinogens as well as other drugs. **Contact lab for specific analytes covered in this panel**	GC/MS TLC (color tests and microscopy as applicable)	2 weeks
7103LI 7103SL	Anabolic and Corticosteroids Panel Identification of Anabolic and Corticosteroids. **Contact lab for specific analytes covered in this panel**	GC/MS TLC	3 weeks
7130LI 7130SL	Caustic Substance Screen	pH	2 weeks
7140SL	Controlled Substances/Weight Contact lab prior to submission.		2 weeks
7175LI 7175SL	HPLC Identification Positive/Negative detection of a specific analyte. **Contact lab for specific analytes offered** Note: Test is generally performed on analytes that are not readily detected by GC/MS.	HPLC	2 weeks

PHARMACEUTICAL DOSAGE FORMS			
ACODE	ACODE NAME & DESCRIPTION	ANALYTICAL METHOD(S) USED	ESTIMATED* TURN AROUND TIME
7080LI	Dosage Form Identification and Quantitation - Liquid Identification and quantitative analysis performed in triplicate. **Contact lab for specific analytes offered**	HPLC GC/MS	3 weeks
7080SL	Dosage Form Identification and Quantitation - Solid Identification and quantitative analysis performed in triplicate. **Contact lab for specific analytes offered**	HPLC GC/MS	3 weeks
6464LI	Dosage Form Quantitation - Liquid Quantitative analysis performed in triplicate. **Contact lab for specific analytes offered**	HPLC	3 weeks
6464SL	Dosage Form Quantitation - Solid Quantitative analysis performed in triplicate. **Contact lab for specific analytes offered**	HPLC	3 weeks
7082LI	Dosage Form Identification and Quantitation by LC-MS/MS - Liquid Identification and quantitative analysis performed in triplicate. **Contact lab for specific analytes offered**	LC-MS/MS	3 weeks
7082SL	Dosage Form Identification and Quantitation by LC-MS/MS - Solid Identification and quantitative analysis performed in triplicate. **Contact lab for specific analytes offered**	LC-MS/MS	3 weeks
7084LI 7084SL	LC-MS/MS Identification Positive/Negative detection of a specific analyte. **Contact lab for specific analytes offered** Note: Generally, this test is performed on analytes that are not readily detected by GC/MS.	LC-MS/MS	3 weeks

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PRODUCT INTEGRITY SERVICES			
ACODE	ACODE NAME & DESCRIPTION	ANALYTICAL METHOD(S) USED	ESTIMATED* TURN AROUND TIME
6210LI	General Unknown, Liquids Analysis includes Drugs, Organophosphate and Carbamate Pesticides, Cyanide, Organochlorine Pesticides, Hydrocarbon and Oxygenated Volatiles, Metals and Anions. **Contact lab prior to submission and for analytes covered in this panel**	TLC, GC/MS, GC-FID, GC-ECD, IC, ICP/MS, Color test, pH	2 weeks
6210SL	General Unknown, Solids Analysis includes Drugs, Organophosphate and Carbamate Pesticides, Cyanide, Organochlorine Pesticides, Hydrocarbon and Oxygenated Volatiles, Metals and Anions. **Contact lab prior to submission and for analytes covered in this panel**	TLC, GC/MS, GC-FID, GC-ECD, IC, ICP/MS, Color test, pH	2 weeks
7196LI 7196SL	FTIR Analysis Assay may be used as a confirmation test. **Contact lab prior to submission**	FTIR	2 weeks
3068LI 3068SL	Microscopic Examination Analysis to identify foreign substances. **Contact lab prior to submission**	Microscopic examination	2 weeks
7222LI	Bleach Screen, Liquid Analysis for the detection of Bleach. **Contact lab prior to submission**	Color Test	2 weeks
7226LI 7226SL	Drug GC/MS Analysis for the identification of Narcotics, Analgesics, Depressants, Stimulants, Hallucinogens as well as other drugs. **Contact lab prior to submission and for analytes covered in this panel**	GC/MS	2 weeks
7223LI 7223SL	Organophosphate and Carbamate Pesticides Analysis for the detection of Organophosphate and Carbamate Pesticides. **Contact lab prior to submission and for analytes covered in this panel**	GC/MS	2 weeks
7188LI 7188SL	Cyanide Screen Analysis for the detection of Cyanide. **Contact lab prior to submission**	Color Test	2 weeks
3229LI 3229SL	Organochlorine Pesticides Analysis for the detection of Organochlorine Pesticides. **Contact lab prior to submission and for analytes covered in this panel**	GC-ECD	2 weeks
2307LI 2307SL	Hydrocarbon and Oxygenated Volatiles Analysis for the detection of Hydrocarbon and Oxygenated Volatile Compounds. **Contact lab prior to submission and for analytes covered in this panel**	GC-FID	2 weeks
3782LI 3782SL	General Unknown Metals Panel Analysis for the detection of 70 heavy metal compounds in liquid (L) or solid (S) samples. **Contact lab prior to submission and for analytes covered in this panel**	ICP/MS	2 weeks
2385LI 2385SL	Criminalistics Ion Chromatography (Panel 1) Analysis for the detection of Anions, including: Bromide, Chloride, Chlorate, Fluoride, Iodide, Nitrite, Nitrate and Thiocyanate in liquid (L) or solid (S) samples. **Contact lab prior to submission**	IC	2 weeks
7189LI 7189SL	Strychnine Identification Analysis for the identification of strychnine. **Contact lab prior to submission**	GC/MS	2 weeks

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PROFESSIONAL SERVICES			
ACODE	ACODE NAME & DESCRIPTION	ANALYTICAL METHOD(S) USED	ESTIMATED* TURN AROUND TIME
7420SL	Crime Scene Investigation Expert forensic assistance at a crime scene. Analyst(s) will perform preliminary tests on-site, collect samples for further analysis, and initiate chain-of-custody. **Contact lab prior to submission**	Hemastix/tetramethylbenzidine test Acid phosphatase spot test	N/A
7097SL	Forensic Investigation Examination / Processing Forensic examination of items submitted to the laboratory. Analyst will perform preliminary tests and collect samples for further analysis.	Hemastix/tetramethylbenzidine test Acid phosphatase spot test	N/A
7094LI 7094SL	Product Integrity Examination / Processing Special examination and processing of items/samples unique to the industrial setting, in order to isolate the contaminant for analysis. Control samples must accompany items/samples, if applicable.		N/A
7280SL	Macroscopic Photography Photographic documentation of an item or location/scene.	Digital photography Conventional photography	N/A
7281SL	Microscopic Photography Photographic documentation of an item.	Digital photography Conventional photography	N/A
7098	Case set-up fee Sample log-in, detailed description and aliquoting of samples in a case.		N/A
7095SL	Blood Spatter-Pattern Interpretation Examination and interpretation of blood spatter/patterns for determinations of impact velocity, angle of impact, and transfer. **Contact lab prior to submission**		N/A
7093	Case Review Independent third party expert review of analyses performed by other laboratories. **Contact lab prior to submission**		N/A

TRACE EVIDENCE			
ACODE	ACODE NAME & DESCRIPTION	ANALYTICAL METHOD(S) USED	ESTIMATED* TURN AROUND TIME
7099SL	Trace Evidence Examination Examination of any evidence such as clothing, hair, fiber, debris, etc. **Contact lab prior to submission**	Visual and microscopic examination	N/A
7092SL	Hair Identification / Comparison Microscopic examination of a questioned hair and its comparison to a set of reference hairs. Submittal must include at least 25 reference hairs. Findings are reported as "consistent with" or "inconsistent with." **Contact lab prior to submission**	Microscopic examination	4 weeks

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