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Report Issued09/29/2017 13:14Last Report Issued09/22/2017 10:21

88888 Clinical Example Report Attn: IT Department 200 Welsh Road Horsham, PA 19044-2208 Patient Name 8101SP-POSPatient ID 8101SP-POSChain 17001864Age Not GivenDOB Not GivenGender Not GivenWorkorder17001864

**Received** 09/21/2017 11:55

Sample ID 17001864-001	Collect Dt/Tm Not Given
Matrix Serum or Plasma	Source Not Given
Patient Name 8101SP-POS	
Patient ID 8101SP-POS	
Container Type Clear vial	Approx Vol/Weight Not Given
Receipt Notes None Entered	

Analysis and Comments	Result	Units	Reporting Limit	Notes
8101SP Drugs of Abuse (10 Panel) and Alcohol Screen, Serum/Plasma (Forensic)				
Analysis by Headspace Gas Chromatography (GC)				
Ethanol Synonym(s): Ethyl Alcohol	85	mg/dL	10	
Ethyl alcohol (ethanol, drinking alcohol) is a central nervous system depressant and can cause effects such as impaired judgment, reduced alertness and impaired muscular coordination. Ethanol can also be a product of decomposition or degradation of biological samples.				
Methanol	85	mg/dL	5.0	
Synonym(s): Methyl Alcohol				
Endogenous blood levels of methanol from metabolic and dietary sources are approximately 0.15 mg/dL.				
Exposure to 800 ppm methanol for 8 hours produced a maximum average blood methanol concentration of 3.1 mg/dL.				
The blood to plasma ratio of methanol is 0.9.				
Isopropanol	85	mg/dL	5.0	
		Results for sample 17001864-	001 are continued o	n next page



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Sample ID 17001864-001 Matrix Serum or Plasma Patient Name 8101SP-POS Patient ID 8101SP-POS

### Collect Dt/Tm Not Given Source Not Given

Analysis and	I Comments	Result	Units	Reporting Limit Note	s
Synonym(s):	Isopropyl Alcohol				
Three worke air had blood acetone leve After a spong blood isoprop	rs exposed to 191 - 200 ppm isopropanol in l isopropanol concentrations <1 mg/dL; ls were 4 - 16 mg/dL during the exposure. ge bath with isopropanol, one adult had a panol concentration of 10 mg/dL.				
In a study of concentration (mean, 140 r ranged from	31 isopropanol deaths, postmortem blood ns ranged from 10 to 250 mg/dL ng/dL) and acetone blood concentrations 40 - 300 mg/dL (mean, 170 mg/dL).				
The blood to	plasma ratio of isopropanol is 0.9 - 1.1.				
Acetone		85	mg/dL	5.0	
Reported not up to 3 mg/d fasting ketoa After exposu reported bloc 2 and 10 mg, A blood level individual wh of acetone.	rmal endogenous acetone levels in blood are L. Levels associated with diabetic or cidosis range from 10 - 70 mg/dL. re to 100 and 500 ppm acetone for 2 hr, od acetone concentrations peaked at /dL, respectively. of 250 mg/dL was reported in an o became lethargic following ingestion plasma ratio of acetone is 1.0 - 1.1.				
Analysis by En (ELISA)	zyme-Linked Immunosorbent Assay				
Opiates		See Comment	ng/mL	20	
Comment:	Based on this screening result, confirmatio performed. Refer to the confirmation test re	n testing was esult(s).			
Cocaine / Me	tabolites	See Comment	ng/mL	20	
Comment:	Based on this screening result, confirmatio performed. Refer to the confirmation test re	n testing was esult(s).			
Benzodiazepi	nes	See Comment	ng/mL	100	
Comment:	Based on this screening result, confirmatio performed. Refer to the confirmation test re	n testing was esult(s).			
Cannabinoids	;	See Comment	ng/mL	10	
Comment:	Based on this screening result, confirmatio performed. Refer to the confirmation test re	n testing was esult(s).			



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Collect Dt/Tm Not Given Source Not Given

Sample ID 17001864-001 Matrix Serum or Plasma Patient Name 8101SP-POS Patient ID 8101SP-POS

Analysis and	Comments	Result	Units	Reporting Limit Notes
Amphetamine	S	See Comment	ng/mL	20
Comment:	Based on this screening result, on performed. Refer to the confirmation of the confirm	confirmation testing was tion test result(s).		
Barbiturates		See Comment	mcg/mL	0.040
Comment:	Based on this screening result, on performed. Refer to the confirmation of the confirm	confirmation testing was tion test result(s).		
Methadone / M	letabolite	See Comment	ng/mL	25
Comment:	Based on this screening result, on performed. Refer to the confirmation of the confirm	confirmation testing was tion test result(s).		
Phencyclidine		See Comment	ng/mL	10
Synonym(s):	Angel Dust; PCP; Sherm			
Comment:	Based on this screening result, on performed. Refer to the confirmation of the confirm	confirmation testing was tion test result(s).		
Methamphetar	mine / MDMA	See Comment	ng/mL	20
Comment:	Based on this screening result, on performed. Refer to the confirmation of the confirm	confirmation testing was tion test result(s).		
Oxycodone / C	Dxymorphone	See Comment	ng/mL	10
Comment:	Based on this screening result, on performed. Refer to the confirmation of the confirm	confirmation testing was tion test result(s).		
53250SP Alco Serum/Plasm	phols and Acetone Confirmati a (Forensic)	on,		
Analysis by Hea	adspace Gas Chromatography (GC	)		
Ethanol		Confirmed	mg/dL	10
Synonym(s):	Ethyl Alcohol		-	
Methanol		Confirmed	mg/dL	5.0
Synonym(s):	Methyl Alcohol			
Isopropanol		Confirmed	mg/dL	5.0
Synonym(s):	Isopropyl Alcohol			
Acetone		Confirmed	mg/dL	5.0

5637SP Cocaine and Metabolites Confirmation, Serum/Plasma



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Analysis and Comments	Result	Units	Reporting Limit Notes
Analysis by Gas Chromatography/Mass Spectrometry (GC/MS)			
Cocaine	500	ng/mL	20
Following oral or nasal intake of 2 mg/kg: Up to 200 ng/mL.			
Cocaethylene	500	ng/mL	20
Synonym(s): Cocaine/Ethanol By-Product			
Benzoylecgonine	500	ng/mL	50
Synonym(s): Cocaine Degradation Product			
5641SP Benzodiazepines Confirmation, Serum/Plasma			
Analysis by High Performance Liquid Chromatography/Tandem Mass Spectrometry (LC-MS/MS)			
Diazepam	50	ng/mL	20
Synonym(s): Valium®			
Therapeutic range: 100 - 1000 ng/mL.			
Nordiazepam	50	ng/mL	20
Therapeutic range: 100 - 1000 ng/mL.			
Oxazepam	50	ng/mL	20
Synonym(s): Serax®			
When used as a drug, the therapeutic plasma concentration: 200 - 1400 ng/mL. Potentially toxic greater than 2000 ng/mL.			
As a metabolite of Diazepam, low concentrations may be observed. In one study, following chronic daily doses of about 70 mg of Diazepam, the steady-state serum concentrations were 50 - 400 ng Oxazepam/mL.			
Temazepam	50	ng/mL	20
Synonym(s): Normison®; Restoril®			



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Analysis and Comments	Result	Units	Reporting Limit Notes
When used as a drug, peak plasma concentrations range from 200 - 1100 ng/mL within 1.5 hours post-dose.			
As a metabolite of Diazepam, low concentrations may be observed. In one study, following chronic daily doses of about 70 mg of Diazepam, the steady-state serum concentrations were 100 - 600 ng Temazepam/mL.			
Clobazam	50	ng/mL	20
Synonym(s): Frisium®; Urbanyl®			
Following a single 20 mg oral dose, the mean peak plasma concentration: 465 ng/mL (range, 220 - 710 ng/mL) after 1.7 hours.			
Following a single 40 mg oral dose, the mean peak plasma concentration: 730 ng/mL at 2.5 hours. The plasma concentration decreased to 360 ng/mL at 12 hours, 180 ng/mL at 48 hours and 17 ng/mL at 96 hours.			
Chlordiazepoxide	50	ng/mL	20
Synonym(s): Librium®			
Therapeutic range: 400 - 2000 ng/mL.			
Lorazepam	50	ng/mL	5.0
Synonym(s): Ativan®			
Therapeutic range: 50 - 240 ng/mL.			
Clonazepam	50	ng/mL	2.0
Synonym(s): Klonopin®			
Therapeutic range: 10 - 75 ng/mL. Toxic: Greater than 100 ng/mL.			
7-Amino Clonazepam	50	ng/mL	5.0
Synonym(s): Clonazepam Metabolite			
Plasma concentrations following chronic therapy with 6 mg/day of Clonazepam: 20 - 140 ng/mL.			
Alprazolam	50	ng/mL	5.0
Synonym(s): Xanax®			
Therapeutic range: 10 - 100 ng/mL. Potentially toxic at greater than 100 ng/mL.			
Alpha-Hydroxyalprazolam	50	ng/mL	5.0



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Analysis and Comments	Result	Units	Reporting Limit Notes
Synonym(s): Alprazolam Metabolite			
Alpha-Hydroxyalprazolam has approximately 66% of the pharmacological activity of Alprazolam.			
Midazolam	50	ng/mL	5.0
Synonym(s): Versed®			
Peak plasma levels following a single 12.5 mg IM dose: approximately 200 ng/mL within 45 minutes of dose. Following a single 75 mcg/kg IV dose over 1 minute: 320 ng/mL at 0.25 hours 250 ng/mL at 0.5 hours 210 ng/mL at 1 hour 140 ng/mL at 2 hours 80 ng/mL at 4 hours 40 ng/mL at 6 hours 20 ng/mL at 8 hours.			
Triazolam	50	ng/mL	2.0
Synonym(s): Halcion®			
Following a single 0.25 mg oral dose, the mean plasma concentration: 3.0 ng/mL (range, 2.3 - 3.7 ng/mL) within 1.5 hours. Following a single 0.5 mg oral dose, the mean plasma concentration: 4.4 ng/mL (range, 1.7 - 9.4 ng/mL) within 4 hours.			
Hydroxytriazolam	50	ng/mL	5.0
Synonym(s): Triazolam Metabolite			
Hydroxytriazolam has 50 to 100% of the pharmacological activity of triazolam.			
Hydroxyethylflurazepam	50	ng/mL	5.0
Synonym(s): Flurazepam Metabolite			
The mean peak plasma concentration following a 30 mg oral dose of Flurazepam was 18 ng Hydroxyethylflurazepam/mL at 1 hour post dose.			
Desalkylflurazepam	50	ng/mL	5.0
Synonym(s): Flurazepam Metabolite			
The mean peak plasma concentration following a 30 mg oral dose of Flurazepam was 23 ng Desalkylflurazepam/mL at 12 hours post dose.			
Flurazepam	50	ng/mL	2.0



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Analysis and Comments	Result	Units	Reporting Limit Notes
Synonym(s): Dalmane®			
The mean peak plasma concentration following a 30 mg oral dose was 2.1 ng/mL at 1 hour post dose, but was undetectable at subsequent times.			
Estazolam	50	ng/mL	5.0
Synonym(s): ProSom®			
The mean peak plasma concentration following a 1 mg oral dose was 55 ng/mL (range, 40 - 70 ng/mL).			
The mean peak plasma concentration following a 2 mg oral dose was 98 ng/mL (range, 75 - 140 ng/mL).			
5645SP Opiates - Free (Unconjugated) Confirmation, Serum/Plasma			
Analysis by High Performance Liquid Chromatography/Tandem Mass Spectrometry (LC-MS/MS)			
Dihydrocodeine / Hydrocodol - Free	50	ng/mL	5.0
Adult therapeutic range: 72-150 ng/mL.			
Codeine - Free	50	ng/mL	5.0
Adult therapeutic range: 20-210 ng/mL.			
Morphine - Free	50	ng/mL	5.0
Adult therapeutic range: <73 ng/mL.			
Hydrocodone - Free	50	ng/mL	5.0
Synonym(s): Vicodin®; Zohydro®			
Adult therapeutic range: 6-29 ng/mL.			
6-MAM - Free	50	ng/mL	1.0
Synonym(s): 6-Monoacetylmorphine; Heroin Metabolite			
6-Monoacetylmorphine is a metabolite of heroin.			
Hydromorphone - Free	50	ng/mL	1.0
Synonym(s): Dilaudid®; Hydrocodone Metabolite			
Adult therapeutic range: 5-20 ng/mL.			
Oxycodone - Free	50	ng/mL	5.0
Synonym(s): OxyContin®; Roxicodone®			



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Analysis and Comments	Result	Units	Reporting Limit Notes
Adult therapeutic range: 13-120 ng/mL.			
Oxymorphone - Free	50	ng/mL	1.0
Synonym(s): Numorphan®; Opana®; Oxycodone Metab	oolite		
Adult therapeutic range: 3-8 ng/mL.			
5646SP Cannabinoids Confirmation, Serum/Plasma			
Analysis by High Performance Liquid Chromatography/Tandem Mass Spectrometry (LC-MS/MS)			
11-Hydroxy Delta-9 THC	50	ng/mL	1.0
Synonym(s): Active Metabolite			
11-Hydroxy Delta-9 THC is an active intermediate metabolite of tetrahydrocannabinol (THC) the active component of marijuana. Usual peak levels: Less than 10% of THC levels after smoking.			
Delta-9 Carboxy THC	50	ng/mL	5.0
Synonym(s): Inactive Metabolite			
Usual peak levels in serum for 1.75% or 3.55% THC marijuana cigarettes: 10 - 101 ng/mL about 32 to 240 minutes after beginning smoking, with a slow decline. Usually not detectable after passive inhalation.			
Delta-9 THC	50	ng/mL	0.50
Synonym(s): Active Ingredient of Marijuana			
Usual peak levels in serum for 1.75% or 3.55% THC marijuana cigarettes: 50 - 270 ng/mL at 6 to 9 minutes after beginning smoking, decreasing to less than 5 ng/mL by 2 hrs.			
5651SP Barbiturates Confirmation, Serum/Plasma			
Analysis by Gas Chromatography/Mass Spectrometry (GC/MS)			
Butabarbital	50	mcg/mL	0.20
Synonym(s): Butisol Sodium			



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Analysis and Comments	Result	Units	Reporting Limit Notes	
Plasma concentrations of 2 - 3 mcg/mL produce sedation and plasma concentrations of 25 mcg/mL produce sleep in most patients. Plasma concentrations of greater than 30 mcg/mL may produce coma and plasma concentrations in excess of 50 mcg/mL are potentially lethal.				
Butalbital	50	mcg/mL	0.20	
A single oral 100 mg dose resulted in a mean peak blood concentration of 2.1 mcg/mL (range, 1.7 - 2.6 mcg/mL) at 2 hours, with a decline to 1.5 mcg/mL (range, 1.3 - 1.7 mcg/mL) by 24 hours. Potentially toxic at plasma concentrations greater than 10 mcg/mL.				
Amobarbital	50	mcg/mL	0.20	
Following a single oral administration of 120 mg, serum concentrations peaked at about 1.8 mcg/mL at 2 hours, and declined slowly thereafter with a half-life of approximately 24 hours. Potentially toxic at plasma concentrations greater than 9 mcg/mL.				
Pentobarbital	50	mcg/mL	0.20	
Peak serum concentrations of 1.2 - 3.1 mcg/mL were produced 0.5 - 2.0 hours after a 100 mg oral dose and peak serum concentrations of 3 mcg/mL were produced 6 min. following a 100 mg IV dose. Potentially toxic at blood concentrations greater than 10 mcg/mL.				
Secobarbital	50	mcg/mL	0.20	
Synonym(s): Seconal®				
A 3.3 mg/kg oral dose (approx. 230 mg/70 kg) produced a mean peak blood concentration of 2.0 mcg/mL (range, 1.8 - 2.2 mcg/mL) at 3 hours, diminishing to 1.3 mcg/mL by 20 hours and 0.8 mcg/mL by 40 hours. Potentially toxic at blood concentrations greater than 8 mcg/mL.				
Phenobarbital	50	mcg/mL	0.20 ELEVATED	
Synonym(s): Luminal®				
Serum/plasma concentrations of 10 - 30 mcg/mL are generally considered desirable when given as an anticonvulsant.				



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Analysis and Comments	Result	Units	Reporting Limit Notes
5657SP Phencyclidine Confirmation, Serum/Plasma			
Analysis by High Performance Liquid Chromatography/Tandem Mass Spectrometry (LC-MS/MS)			
Phencyclidine	500	ng/mL	5.0
Synonym(s): Angel Dust; PCP; Sherm			
5682SP Methadone and Metabolite Confirmation, Serum/Plasma			
Analysis by High Performance Liquid Chromatography/Tandem Mass Spectrometry (LC-MS/MS)			
Methadone	500	ng/mL	20
Synonym(s): Dolophine®; Dolophine®			
Usual narcotic stabilization range: 50 - 1000 ng/mL.			
EDDP	500	ng/mL	20
Synonym(s): Methadone Metabolite			
5684SP Amphetamines Confirmation, Serum/Plasma			
Analysis by High Performance Liquid Chromatography/Tandem Mass Spectrometry (LC-MS/MS)			
Ephedrine	50	ng/mL	5.0
A single 24 mg oral dose resulted in a peak plasma concentration of approximately 100 ng/mL.			
During chronic daily oral therapy with 15 mg (3 times daily), a plasma level of 95 ng/mL was reported at 4 hours, and 65 ng/mL at 6 hours after one 15 mg dose.			
Pseudoephedrine	50	ng/mL	5.0



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Analysis and Comments	Result	Units	Reporting Limit Notes	
Following a 60 mg oral dose (immediate-release tablet or syrup), mean peak plasma concentrations of 180 to 360 ng/mL were reported at 3 hours.				
Following a 120 mg oral dose (controlled-release capsule), mean peak plasma concentrations of 265 to 315 ng/mL were reported.				
Chronic administration of 360 mg/day (of a controlled-release preparation) resulted in mean steady-state plasma concentrations between 500 and 640 ng/mL over a 10-day period.				
Phenylpropanolamine	50	ng/mL	5.0	
Synonym(s): Norephedrine; PPA				
Phenylpropanolamine is a drug as well as the metabolite of Ephedrine.				
Following a single 50 mg oral dose (immediate-release tablet), the mean peak plasma concentration was 180 ng/mL at 1 to 2 hours.				
Following a single 150 mg oral dose (sustained-release preparation), the mean peak plasma concentration was 280 ng/mL at 6 hours.				
Norpseudoephedrine	50	ng/mL	5.0	
Synonym(s): Cathine				
Norpseudoephedrine is a metabolite of Pseudoephedrine.				
Amphetamine	50	ng/mL	5.0	
Amphetamine is a drug as well as the metabolite of Methamphetamine.				
Therapeutic Range (treatment of Narcolepsy or Attention Deficit Disorder) with doses between 10 and 30 mg daily: Mean peak plasma concentrations between 35 and 110 ng/mL.				
Phentermine	50	ng/mL	5.0	
Synonym(s): Adipex-P®; Ionamin®; Pro-Fast®				



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Analysis and Comments	Result	Units	Reporting Limit	Notes
A single 26 mg/70 kg oral dose produced a mean peak blood concentration of 90 ng/mL at 4 hours, declining to 30 ng/mL after 40 hours.				
Adults receiving 30 mg daily oral doses for 2 weeks achieved a mean steady-state plasma concentration of 360 ng/mL (range 180 to 510 ng/mL).				
Methamphetamine	50	ng/mL	5.0	
Therapeutic Range (treatment of Obesity and Attention Deficit Disorder) following a 12.5 mg oral dose: Mean peak blood concentrations were 20 ng/mL at 2.5 hours.				
This test reports Methamphetamine as the total of the undifferentiated d and I enantiomers. The ratio of these enantiomers is important in determining whether the source of Methamphetamine is from over the counter medications, prescribed medication or controlled substances. Call lab for further information on d to I enantiomer ratio determination.				
MDA	50	ng/mL	5.0	
Synonym(s): 3,4-Methylenedioxyamphetamine; Adam; I	MDMA Metabolite			
MDA is a metabolite of MDMA and methylenedioxyethylamphetamine (MDEA) and is abused for its central nervous system stimulant and hallucinogenic properties. The peak concentration of the MDA metabolite following a 110 mg dose of MDMA was reported as 28 ng/mL at 4 hours.				
MDMA	50	ng/mL	5.0	
Synonym(s): 3,4-Methylenedioxymethamphetamine; Ec	stasy			
Following a single 50 mg oral dose, the mean peak plasma concentration was 110 ng/mL at 2 hours.				
MDEA	50	ng/mL	5.0	
Synonym(s): 3,4-methylenedioxyethamphetamine; Eve				
A single oral 140 mg dose given to 6 adults produced peak plasma concentrations that averaged 260 ng/mL at 2.2 hours.				