



NMS Labs

CONFIDENTIAL

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Robert A. Middleberg, PhD, F-ABFT, DABCC-TC, Laboratory Director

Demo Report

Report Issued 09/29/2017 13:10
Last Report Issued 09/22/2017 10:15

88888
Clinical Example Report
Attn: IT Department
200 Welsh Road
Horsham, PA 19044-2208

Patient Name 8096SP-POS
Patient ID 8096SP-POS
Chain 17001853
Age Not Given DOB Not Given
Gender Not Given
Workorder 17001853
Received 09/21/2017 11:48

Sample ID 17001853-001
Matrix Serum or Plasma
Patient Name 8096SP-POS
Patient ID 8096SP-POS
Container Type Clear vial

Collect Dt/Tm Not Given
Source Not Given

Approx Vol/Weight Not Given

Receipt Notes None Entered

Table with 5 columns: Analysis and Comments, Result, Units, Reporting Limit, Notes. Contains data for 8096SP Drugs of Abuse Screen (10 Panel), Serum/Plasma (Forensic) with sub-headers for Opiates, Cocaine / Metabolites, Benzodiazepines, Cannabinoids, Amphetamines, and Barbiturates.

Results for sample 17001853-001 are continued on next page



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Sample ID 17001853-001
Matrix Serum or Plasma
Patient Name 8096SP-POS
Patient ID 8096SP-POS

Collect Dt/Tm Not Given
Source Not Given

Analysis and Comments	Result	Units	Reporting Limit	Notes
Comment: Based on this screening result, confirmation testing was performed. Refer to the confirmation test result(s).				
Methadone / Metabolite	See Comment	ng/mL	25	
Comment: Based on this screening result, confirmation testing was performed. Refer to the confirmation test result(s).				
Phencyclidine	See Comment	ng/mL	10	
Synonym(s): Angel Dust; PCP; Sherm				
Comment: Based on this screening result, confirmation testing was performed. Refer to the confirmation test result(s).				
Methamphetamine / MDMA	See Comment	ng/mL	20	
Comment: Based on this screening result, confirmation testing was performed. Refer to the confirmation test result(s).				
Oxycodone / Oxymorphone	See Comment	ng/mL	10	
Comment: Based on this screening result, confirmation testing was performed. Refer to the confirmation test result(s).				

50010SP Amphetamines Confirmation, Serum/Plasma (Forensic)

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	

Results for sample 17001853-001 are continued on next page



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Sample ID 17001853-001
Matrix Serum or Plasma
Patient Name 8096SP-POS
Patient ID 8096SP-POS

Collect Dt/Tm Not Given
Source Not Given

Table with 5 columns: Analysis and Comments, Result, Units, Reporting Limit, Notes. Contains data for Phenylpropanolamine, Norpseudoephedrine, Amphetamine, and Phentermine.

Results for sample 17001853-001 are continued on next page



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Matrix Serum or Plasma
Patient Name 8096SP-POS
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Collect Dt/Tm Not Given
Source Not Given

Table with 5 columns: Analysis and Comments, Result, Units, Reporting Limit, Notes. Contains data for Methamphetamine, MDA, MDMA, and MDEA.

Results for sample 17001853-001 are continued on next page



Sample ID 17001853-001
Matrix Serum or Plasma
Patient Name 8096SP-POS
Patient ID 8096SP-POS

Collect Dt/Tm Not Given
Source Not Given

Analysis and Comments	Result	Units	Reporting Limit	Notes
50011SP Barbiturates Confirmation, Serum/Plasma (Forensic)				
Analysis by Gas Chromatography/Mass Spectrometry (GC/MS)				
Butabarbital Synonym(s): Butisol Sodium 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.	50	mcg/mL	0.20	
Butalbital 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.	50	mcg/mL	0.20	
Amobarbital 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.	50	mcg/mL	0.20	
Pentobarbital 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.	50	mcg/mL	0.20	
Secobarbital Synonym(s): Seconal®	50	mcg/mL	0.20	

Results for sample 17001853-001 are continued on next page



Sample ID 17001853-001
Matrix Serum or Plasma
Patient Name 8096SP-POS
Patient ID 8096SP-POS

Collect Dt/Tm Not Given
Source Not Given

Analysis and Comments	Result	Units	Reporting Limit	Notes
<p>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.</p>				
Phenobarbital Synonym(s): Luminal® Serum/plasma concentrations of 10 - 30 mcg/mL are generally considered desirable when given as an anticonvulsant.	50	mcg/mL	0.20	
<p>50012SP Benzodiazepines Confirmation, Serum/Plasma (Forensic)</p> <p>Analysis by High Performance Liquid Chromatography/Tandem Mass Spectrometry (LC-MS/MS)</p>				
Diazepam Synonym(s): Valium® Therapeutic range: 100 - 1000 ng/mL.	50	ng/mL	20	
Nordiazepam Synonym(s): Chlordiazepoxide Metabolite Psychiatric patients taking chronic diazepam doses ranging from 2 to 55 mg daily had steady state plasma concentrations of nordiazepam averaging 390 ng/mL (range 26 to 1600 ng/mL).	50	ng/mL	20	
Oxazepam 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.	50	ng/mL	20	
Temazepam Synonym(s): Normison®; Diazepam Metabolite	50	ng/mL	20	

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Sample ID 17001853-001
Matrix Serum or Plasma
Patient Name 8096SP-POS
Patient ID 8096SP-POS

Collect Dt/Tm Not Given
Source Not Given

Analysis and Comments	Result	Units	Reporting Limit	Notes
<p>When used as a drug, peak plasma concentrations range from 200 - 1100 ng/mL within 1.5 hours post-dose.</p> <p>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.</p>				
<p>Clobazam</p> <p>Synonym(s): Urbanyl®; Frisium®</p> <p>Following a single 20 mg oral dose, the mean peak plasma concentration: 465 ng/mL (range, 220 - 710 ng/mL) after 1.7 hours.</p> <p>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.</p>	50	ng/mL	20	
<p>Chlordiazepoxide</p> <p>Synonym(s): Librium®</p> <p>Therapeutic range: 400 - 2000 ng/mL.</p>	50	ng/mL	20	
<p>Lorazepam</p> <p>Synonym(s): Ativan®</p> <p>Therapeutic range: 50 - 240 ng/mL.</p>	50	ng/mL	5.0	
<p>Clonazepam</p> <p>Synonym(s): Klonopin®</p> <p>Therapeutic range: 10 - 75 ng/mL. Toxic: Greater than 100 ng/mL.</p>	50	ng/mL	2.0	
<p>7-Amino Clonazepam</p> <p>Synonym(s): Clonazepam Metabolite</p> <p>Plasma concentrations following chronic therapy with 6 mg/day of Clonazepam: 20 - 140 ng/mL.</p>	50	ng/mL	5.0	
<p>Alprazolam</p> <p>Synonym(s): Xanax®</p> <p>Therapeutic range: 10 - 100 ng/mL. Potentially toxic at greater than 100 ng/mL.</p>	50	ng/mL	5.0	
<p>Alpha-Hydroxyalprazolam</p>	50	ng/mL	5.0	

Results for sample 17001853-001 are continued on next page



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Matrix Serum or Plasma
Patient Name 8096SP-POS
Patient ID 8096SP-POS

Collect Dt/Tm Not Given
Source Not Given

Table with 5 columns: Analysis and Comments, Result, Units, Reporting Limit, Notes. Rows include Midazolam, Triazolam, Hydroxytriazolam, Hydroxyethylflurazepam, Desalkylflurazepam, and Flurazepam with their respective results and reporting limits.

Results for sample 17001853-001 are continued on next page



Sample ID 17001853-001
Matrix Serum or Plasma
Patient Name 8096SP-POS
Patient ID 8096SP-POS

Collect Dt/Tm Not Given
Source Not Given

Analysis and Comments	Result	Units	Reporting Limit	Notes
<p>Synonym(s): Dalmane®</p> <p>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.</p>				
Estazolam	50	ng/mL	5.0	
<p>Synonym(s): ProSom®</p> <p>The mean peak plasma concentration following a 1 mg oral dose was 55 ng/mL (range, 40 - 70 ng/mL).</p> <p>The mean peak plasma concentration following a 2 mg oral dose was 98 ng/mL (range, 75 - 140 ng/mL).</p>				
50013SP Cannabinoids Confirmation, Serum/Plasma (Forensic)				
Analysis by High Performance Liquid Chromatography/Tandem Mass Spectrometry (LC-MS/MS)				
11-Hydroxy Delta-9 THC	50	ng/mL	1.0	
<p>Synonym(s): Active Metabolite</p> <p>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.</p>				
Delta-9 Carboxy THC	50	ng/mL	5.0	
<p>Synonym(s): Inactive Metabolite</p> <p>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.</p>				
Delta-9 THC	50	ng/mL	0.50	
<p>Synonym(s): Active Ingredient of Marijuana</p> <p>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.</p>				

50014SP Cocaine and Metabolites Confirmation, Serum/Plasma (Forensic)

Results for sample 17001853-001 are continued on next page



Sample ID 17001853-001
Matrix Serum or Plasma
Patient Name 8096SP-POS
Patient ID 8096SP-POS

Collect Dt/Tm Not Given
Source Not Given

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				
50015SP Methadone and Metabolite Confirmation, Serum/Plasma (Forensic)				
Analysis by High Performance Liquid Chromatography/Tandem Mass Spectrometry (LC-MS/MS)				
Methadone	500	ng/mL	20	
Synonym(s): Dolophine®				
Usual narcotic stabilization range: 50 - 1000 ng/mL.				
EDDP	500	ng/mL	20	
Synonym(s): Methadone Metabolite				
50016SP Opiates - Free (Unconjugated) Confirmation, Serum/Plasma (Forensic)				
Analysis by High Performance Liquid Chromatography/Tandem Mass Spectrometry (LC-MS/MS)				
Dihydrocodeine / Hydrocodol - Free	50	ng/mL	5.0	
Synonym(s): Hydrocodone Metabolite				
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	
Synonym(s): Codeine Metabolite				
Adult therapeutic range: <73 ng/mL.				

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Sample ID 17001853-001
Matrix Serum or Plasma
Patient Name 8096SP-POS
Patient ID 8096SP-POS

Collect Dt/Tm Not Given
Source Not Given

Table with 5 columns: Analysis and Comments, Result, Units, Reporting Limit, Notes. Rows include Hydrocodone - Free, 6-MAM - Free, Hydromorphone - Free, Oxycodone - Free, and Oxymorphone - Free.

50017SP Phencyclidine Confirmation, Serum/Plasma (Forensic)

Analysis by High Performance Liquid Chromatography/Tandem Mass Spectrometry (LC-MS/MS)

Table with 5 columns: Analysis and Comments, Result, Units, Reporting Limit, Notes. Row for Phencyclidine.