



NMS Labs

CONFIDENTIAL

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

Demo Report

Report Issued 09/29/2017 13:13
Last Report Issued 09/22/2017 10:08

88888

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

Patient Name 1864SP-POS
Patient ID 1864SP-POS
Chain 17001838
Age Not Given **DOB** Not Given
Gender Not Given
Workorder 17001838
Received 09/21/2017 11:21

Sample ID 17001838-001
Matrix Serum or Plasma
Patient Name 1864SP-POS
Patient ID 1864SP-POS
Container Type Clear vial

Collect Dt/Tm Not Given
Source Not Given

Approx Vol/Weight Not Given

Receipt Notes None Entered

Analysis and Comments	Result	Units	Reporting Limit	Notes
1864SP Drugs of Abuse Screen (10 Panel), Serum/Plasma				
Analysis by Enzyme-Linked Immunosorbent Assay (ELISA)				
Opiates	See Comment	ng/mL	20	
Comment:	Based on this screening result, confirmation testing was performed. Refer to the confirmation test result(s).			
Cocaine / Metabolites	See Comment	ng/mL	20	
Comment:	Based on this screening result, confirmation testing was performed. Refer to the confirmation test result(s).			
Benzodiazepines	See Comment	ng/mL	100	
Comment:	Based on this screening result, confirmation testing was performed. Refer to the confirmation test result(s).			
Cannabinoids	See Comment	ng/mL	10	
Comment:	Based on this screening result, confirmation testing was performed. Refer to the confirmation test result(s).			
Amphetamines	See Comment	ng/mL	20	
Comment:	Based on this screening result, confirmation testing was performed. Refer to the confirmation test result(s).			
Barbiturates	See Comment	mcg/mL	0.040	

Results for sample 17001838-001 are continued on next page



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Sample ID 17001838-001
Matrix Serum or Plasma
Patient Name 1864SP-POS
Patient ID 1864SP-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).				

5637SP Cocaine and Metabolites Confirmation, Serum/Plasma

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				
Benzoylcegonine	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®				

Results for sample 17001838-001 are continued on next page



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Sample ID 17001838-001
Matrix Serum or Plasma
Patient Name 1864SP-POS
Patient ID 1864SP-POS

Collect Dt/Tm Not Given
Source Not Given

Table with 5 columns: Analysis and Comments, Result, Units, Reporting Limit, Notes. Rows include Nordiazepam, Oxazepam, Temazepam, Clobazam, and Chlordiazepoxide with their respective results and clinical notes.

Results for sample 17001838-001 are continued on next page



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Sample ID 17001838-001
Matrix Serum or Plasma
Patient Name 1864SP-POS
Patient ID 1864SP-POS

Collect Dt/Tm Not Given
Source Not Given

Analysis and Comments	Result	Units	Reporting Limit	Notes
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	
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.				

Results for sample 17001838-001 are continued on next page



Sample ID 17001838-001
Matrix Serum or Plasma
Patient Name 1864SP-POS
Patient ID 1864SP-POS

Collect Dt/Tm Not Given
Source Not Given

Analysis and Comments	Result	Units	Reporting Limit	Notes
Hydroxytriazolam Synonym(s): Triazolam Metabolite Hydroxytriazolam has 50 to 100% of the pharmacological activity of triazolam.	50	ng/mL	5.0	
Hydroxyethylflurazepam 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.	50	ng/mL	5.0	
Desalkylflurazepam 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.	50	ng/mL	5.0	
Flurazepam 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.	50	ng/mL	2.0	
Estazolam 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).	50	ng/mL	5.0	

**5645SP Opiates - Free (Unconjugated)
Confirmation, Serum/Plasma**

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

Dihydrocodeine / Hydrocodol - Free Adult therapeutic range: 72-150 ng/mL.	50	ng/mL	5.0	
Codeine - Free Adult therapeutic range: 20-210 ng/mL.	50	ng/mL	5.0	

Results for sample 17001838-001 are continued on next page



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Sample ID 17001838-001
Matrix Serum or Plasma
Patient Name 1864SP-POS
Patient ID 1864SP-POS

Collect Dt/Tm Not Given
Source Not Given

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

5646SP Cannabinoids Confirmation, Serum/Plasma

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

Table with 5 columns: Analysis and Comments, Result, Units, Reporting Limit, Notes. Rows include 11-Hydroxy Delta-9 THC and Delta-9 Carboxy THC.

Results for sample 17001838-001 are continued on next page



Sample ID 17001838-001
Matrix Serum or Plasma
Patient Name 1864SP-POS
Patient ID 1864SP-POS

Collect Dt/Tm Not Given
Source Not Given

Analysis and Comments	Result	Units	Reporting Limit	Notes
<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> <p>Delta-9 THC</p> <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>	50	ng/mL	0.50	
<p>5651SP Barbiturates Confirmation, Serum/Plasma</p> <p>Analysis by Gas Chromatography/Mass Spectrometry (GC/MS)</p> <p>Butabarbital</p> <p>Synonym(s): Butisol Sodium</p> <p>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.</p>	50	mcg/mL	0.20	
<p>Butalbital</p> <p>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.</p>	50	mcg/mL	0.20	
<p>Amobarbital</p> <p>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.</p>	50	mcg/mL	0.20	
<p>Pentobarbital</p>	50	mcg/mL	0.20	

Results for sample 17001838-001 are continued on next page



Sample ID 17001838-001
Matrix Serum or Plasma
Patient Name 1864SP-POS
Patient ID 1864SP-POS

Collect Dt/Tm Not Given
Source Not Given

Analysis and Comments	Result	Units	Reporting Limit	Notes
<p>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.</p>				
<p>Secobarbital</p> <p>Synonym(s): Seconal®</p> <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>	50	mcg/mL	0.20	
<p>Phenobarbital</p> <p>Synonym(s): Luminal®</p> <p>Serum/plasma concentrations of 10 - 30 mcg/mL are generally considered desirable when given as an anticonvulsant.</p>	50	mcg/mL	0.20	ELEVATED
<p>5657SP Phencyclidine Confirmation, Serum/Plasma</p> <p>Analysis by High Performance Liquid Chromatography/Tandem Mass Spectrometry (LC-MS/MS)</p>				
<p>Phencyclidine</p> <p>Synonym(s): Angel Dust; PCP; Sherm</p>	500	ng/mL	5.0	
<p>5682SP Methadone and Metabolite Confirmation, Serum/Plasma</p> <p>Analysis by High Performance Liquid Chromatography/Tandem Mass Spectrometry (LC-MS/MS)</p>				
<p>Methadone</p> <p>Synonym(s): Dolophine®; Dolophine®</p> <p>Usual narcotic stabilization range: 50 - 1000 ng/mL.</p>	500	ng/mL	20	
<p>EDDP</p> <p>Synonym(s): Methadone Metabolite</p>	500	ng/mL	20	

Results for sample 17001838-001 are continued on next page



Sample ID 17001838-001
Matrix Serum or Plasma
Patient Name 1864SP-POS
Patient ID 1864SP-POS

Collect Dt/Tm Not Given
Source Not Given

Analysis and Comments	Result	Units	Reporting Limit	Notes
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	
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.				

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Sample ID 17001838-001
Matrix Serum or Plasma
Patient Name 1864SP-POS
Patient ID 1864SP-POS

Collect Dt/Tm Not Given
Source Not Given

Table with 5 columns: Analysis and Comments, Result, Units, Reporting Limit, Notes. Rows include Amphetamine, Phentermine, Methamphetamine, MDA, and MDMA with their respective results and clinical notes.

Results for sample 17001838-001 are continued on next page



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Matrix Serum or Plasma
Patient Name 1864SP-POS
Patient ID 1864SP-POS

Collect Dt/Tm Not Given
Source Not Given

Analysis and Comments	Result	Units	Reporting Limit	Notes
Synonym(s): 3,4-Methylenedioxymethamphetamine; Ecstasy 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.				