



NMS Labs

CONFIDENTIAL

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

Demo Report

Report Issued 09/29/2017 13:11
Last Report Issued 09/27/2017 12:45

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

Patient Name 1858B-POS
Patient ID 1858B-POS
Chain 17001831
Age Not Given DOB Not Given
Gender Not Given
Workorder 17001831
Received 09/21/2017 11:11

Sample ID 17001831-001
Matrix Blood
Patient Name 1858B-POS
Patient ID 1858B-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

1858B Drugs of Abuse (10 Panel) and Alcohol Screen, Blood

Analysis by Headspace Gas Chromatography (GC)

Table row for Ethanol: Result 85, Units mg/dL, Reporting Limit 10. Includes synonym Ethyl Alcohol and a detailed description of its effects.

Analysis by Enzyme-Linked Immunosorbent Assay (ELISA)

Table rows for Opiates, Cocaine / Metabolites, and Benzodiazepines, all with 'See Comment' results and a reporting limit of 20 or 100 ng/mL.

Results for sample 17001831-001 are continued on next page



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Sample ID 17001831-001
Matrix Blood
Patient Name 1858B-POS
Patient ID 1858B-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).				
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	
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): PCP; Angel Dust; 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).				

53251B Ethanol Confirmation, Blood

Analysis by Headspace Gas Chromatography (GC)

Ethanol	Confirmed	mg/dL	10	
Synonym(s): Ethyl Alcohol				

5637B Cocaine and Metabolites Confirmation, Blood

Analysis by Gas Chromatography/Mass Spectrometry (GC/MS)

Results for sample 17001831-001 are continued on next page



Sample ID 17001831-001
Matrix Blood
Patient Name 1858B-POS
Patient ID 1858B-POS

Collect Dt/Tm Not Given
Source Not Given

Analysis and Comments	Result	Units	Reporting Limit	Notes
Cocaine Following oral or nasal intake of 2 mg/kg: Up to 200 ng/mL.	500	ng/mL	20	
Cocaethylene Synonym(s): Cocaine/Ethanol By-Product	500	ng/mL	20	
Benzoylecgonine Synonym(s): Cocaine Degradation Product	500	ng/mL	50	

5641B Benzodiazepines Confirmation, Blood

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

Diazepam Synonym(s): Valium® Therapeutic range: 100 - 1000 ng/mL.	50	ng/mL	20	
Nordiazepam Therapeutic range: 100 - 1000 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): Restoril®; Normison® 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.	50	ng/mL	20	
Clobazam	50	ng/mL	20	

Results for sample 17001831-001 are continued on next page



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Sample ID 17001831-001
Matrix Blood
Patient Name 1858B-POS
Patient ID 1858B-POS

Collect Dt/Tm Not Given
Source Not Given

Table with 5 columns: Analysis and Comments, Result, Units, Reporting Limit, Notes. Rows include Clordiazepoxide, Lorazepam, Clonazepam, 7-Amino Clonazepam, Alprazolam, Alpha-Hydroxyalprazolam, and Midazolam with their respective values and limits.

Results for sample 17001831-001 are continued on next page



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Sample ID 17001831-001
Matrix Blood
Patient Name 1858B-POS
Patient ID 1858B-POS

Collect Dt/Tm Not Given
Source Not Given

Table with 5 columns: Analysis and Comments, Result, Units, Reporting Limit, Notes. Contains data for Triazolam, Hydroxytriazolam, Hydroxyethylflurazepam, Desalkylflurazepam, Flurazepam, and Estazolam.

Results for sample 17001831-001 are continued on next page



Sample ID 17001831-001
Matrix Blood
Patient Name 1858B-POS
Patient ID 1858B-POS

Collect Dt/Tm Not Given
Source Not Given

Analysis and Comments	Result	Units	Reporting Limit	Notes
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).				
5645B Opiates - Free (Unconjugated) Confirmation, Blood				
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	
Morphine - Free Adult therapeutic range: <73 ng/mL.	50	ng/mL	5.0	
Hydrocodone - Free Synonym(s): Vicodin®; Zohydro® Adult therapeutic range: 6-29 ng/mL.	50	ng/mL	5.0	
6-Monoacetylmorphine - Free Synonym(s): 6-MAM; Heroin Metabolite 6-Monoacetylmorphine is a metabolite of heroin.	50	ng/mL	1.0	
Hydromorphone - Free Synonym(s): Dilaudid®; Hydrocodone Metabolite Adult therapeutic range: 5-20 ng/mL.	50	ng/mL	1.0	
Oxycodone - Free Synonym(s): OxyContin®; Roxicodone® Adult therapeutic range: 13-120 ng/mL.	50	ng/mL	5.0	
Oxymorphone - Free Synonym(s): Numorphan®; Opana®; Oxycodone Metabolite Adult therapeutic range: 3-8 ng/mL.	50	ng/mL	1.0	

Results for sample 17001831-001 are continued on next page



Sample ID 17001831-001
Matrix Blood
Patient Name 1858B-POS
Patient ID 1858B-POS

Collect Dt/Tm Not Given
Source Not Given

Analysis and Comments	Result	Units	Reporting Limit	Notes
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5646B Cannabinoids Confirmation, Blood

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

11-Hydroxy Delta-9 THC 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.	50	ng/mL	1.0	
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Delta-9 Carboxy THC 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.	50	ng/mL	5.0	
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Delta-9 THC Synonym(s): Active Ingredient of Marijuana THC concentrations in blood are usually about one-half of serum/plasma concentrations. 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.	50	ng/mL	0.50	
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5651B Barbiturates Confirmation, Blood

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	
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Butalbital	50	mcg/mL	0.20	
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Results for sample 17001831-001 are continued on next page



Sample ID 17001831-001
Matrix Blood
Patient Name 1858B-POS
Patient ID 1858B-POS

Collect Dt/Tm Not Given
Source Not Given

Analysis and Comments	Result	Units	Reporting Limit	Notes
<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>				
Amobarbital	50	mcg/mL	0.20	
<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>				
Pentobarbital	50	mcg/mL	0.20	
<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>				
Secobarbital	50	mcg/mL	0.20	
<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>				
Phenobarbital	50	mcg/mL	0.20	ELEVATED
<p>Synonym(s): Luminal®</p> <p>Serum/plasma concentrations of 10 - 30 mcg/mL are generally considered desirable when given as an anticonvulsant.</p> <p>A blood/plasma ratio of 0.81 has been reported.</p>				
5657B Phencyclidine Confirmation, Blood				
<p>Analysis by High Performance Liquid Chromatography/Tandem Mass Spectrometry (LC-MS/MS)</p>				
Phencyclidine	500	ng/mL	5.0	
<p>Synonym(s): Sherm; Angel Dust; PCP</p>				

Results for sample 17001831-001 are continued on next page



Sample ID 17001831-001
Matrix Blood
Patient Name 1858B-POS
Patient ID 1858B-POS

Collect Dt/Tm Not Given
Source Not Given

Analysis and Comments	Result	Units	Reporting Limit	Notes
5682B Methadone and Metabolite Confirmation, Blood				
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				
5684B Amphetamines Confirmation, Blood				
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				

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Matrix Blood
Patient Name 1858B-POS
Patient ID 1858B-POS

Collect Dt/Tm Not Given
Source Not Given

Analysis and Comments	Result	Units	Reporting Limit	Notes
<p>Phenylpropranolamine is a drug as well as the metabolite of Ephedrine.</p> <p>Following a single 50 mg oral dose (immediate-release tablet), the mean peak plasma concentration was 180 ng/mL at 1 to 2 hours.</p> <p>Following a single 150 mg oral dose (sustained-release preparation), the mean peak plasma concentration was 280 ng/mL at 6 hours.</p>				
<p>Norpseudoephedrine</p> <p>Synonym(s): Cathine</p> <p>Norpseudoephedrine is a metabolite of Pseudoephedrine.</p>	50	ng/mL	5.0	
<p>Amphetamine</p> <p>Amphetamine is a drug as well as the metabolite of Methamphetamine.</p> <p>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.</p>	50	ng/mL	5.0	
<p>Phentermine</p> <p>Synonym(s): Adipex-P®; Ionamin®; Pro-Fast®</p> <p>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.</p> <p>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).</p>	50	ng/mL	5.0	
<p>Methamphetamine</p>	50	ng/mL	5.0	

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Matrix Blood
Patient Name 1858B-POS
Patient ID 1858B-POS

Collect Dt/Tm Not Given
Source Not Given

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