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

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Demo Report

Report Issued 06/01/2020 07:52
Last Report Issued 06/01/2020 07:52

88888
Clinical Example Report
Attn: Example Reports
200 Welsh Road
Horsham, PA 19044

Patient Name 8101SP-POS
Patient ID 8101SP-POS
Chain 20001263
Age Not Given **DOB** Not Given
Gender Not Given
Workorder 20001263

Received 06/01/2020 07:09

Sample ID 20001263-001
Matrix Serum or Plasma
Patient Name 8101SP-POS
Patient ID 8101SP-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
8101SP Drugs of Abuse (10 Panel) and Alcohol Screen, Serum/Plasma				
Analysis by Headspace Gas Chromatography (GC)				
Ethanol	85	mg/dL	10	
Synonym(s): Ethyl Alcohol				
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 20001263-001 are continued on next page

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Matrix Serum or Plasma
Patient Name 8101SP-POS
Patient ID 8101SP-POS

Collect Dt/Tm Not Given
Source Not Given

Analysis and Comments	Result	Units	Reporting Limit	Notes
Synonym(s): Isopropyl Alcohol				
Three workers exposed to 191 - 200 ppm isopropanol in air had blood isopropanol concentrations <1 mg/dL; acetone levels were 4 - 16 mg/dL during the exposure. After a sponge bath with isopropanol, one adult had a blood isopropanol concentration of 10 mg/dL.				
In a study of 31 isopropanol deaths, postmortem blood concentrations ranged from 10 to 250 mg/dL (mean, 140 mg/dL) and acetone blood concentrations ranged from 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 normal endogenous acetone levels in blood are up to 3 mg/dL. Levels associated with diabetic or fasting ketoacidosis range from 10 - 70 mg/dL. After exposure to 100 and 500 ppm acetone for 2 hr, reported blood acetone concentrations peaked at 2 and 10 mg/dL, respectively. A blood level of 250 mg/dL was reported in an individual who became lethargic following ingestion of acetone.				
The blood to plasma ratio of acetone is 1.0 - 1.1.				
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	

Results for sample 20001263-001 are continued on next page

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Patient Name 8101SP-POS
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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).				
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): 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).				

This test was developed and its performance characteristics determined by NMS Labs. It has not been cleared or approved by the US Food and Drug Administration.

53250SP Alcohols and Acetone Confirmation, Serum/Plasma

Analysis by Headspace 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	

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Matrix Serum or Plasma
Patient Name 8101SP-POS
Patient ID 8101SP-POS

Collect Dt/Tm Not Given
Source Not Given

Analysis and Comments	Result	Units	Reporting Limit	Notes
5637SP Cocaine and Metabolites Confirmation, Serum/Plasma				
Analysis by Gas Chromatography/Mass Spectrometry (GC/MS)				
Cocaine	50	ng/mL	20	
Following oral or nasal intake of 2 mg/kg: Up to 200 ng/mL.				
Cocaethylene	50	ng/mL	20	
Synonym(s): Cocaine/Ethanol By-Product				
Benzoylecgonine	50	ng/mL	50	
Synonym(s): Cocaine Degradation Product				
This test was developed and its performance characteristics determined by NMS Labs. It has not been cleared or approved by the US Food and Drug Administration.				
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	

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Matrix Serum or Plasma
Patient Name 8101SP-POS
Patient ID 8101SP-POS

Collect Dt/Tm Not Given
Source Not Given

Analysis and Comments	Result	Units	Reporting Limit	Notes
Synonym(s): Normison®; Restoril®				
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): Urbanyl®; Frisium®				
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®				

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Patient Name 8101SP-POS
Patient ID 8101SP-POS

Collect Dt/Tm Not Given
Source Not Given

Analysis and Comments	Result	Units	Reporting Limit	Notes
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.				
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				

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Patient Name 8101SP-POS
Patient ID 8101SP-POS

Collect Dt/Tm Not Given
Source Not Given

Analysis and Comments	Result	Units	Reporting Limit	Notes
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	
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).				

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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.				

Results for sample 20001263-001 are continued on next page

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Matrix Serum or Plasma
Patient Name 8101SP-POS
Patient ID 8101SP-POS

Collect Dt/Tm Not Given
Source Not Given

Analysis and Comments	Result	Units	Reporting Limit	Notes
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®				
Adult therapeutic range: 13-120 ng/mL.				
Oxymorphone - Free	50	ng/mL	1.0	
Synonym(s): Numorphan®; Opana®; Oxycodone Metabolite				
Adult therapeutic range: 3-8 ng/mL.				

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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.				

Results for sample 20001263-001 are continued on next page

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Sample ID 20001263-001
Matrix Serum or Plasma
Patient Name 8101SP-POS
Patient ID 8101SP-POS

Collect Dt/Tm Not Given
Source Not Given

Analysis and Comments	Result	Units	Reporting Limit	Notes

This test was developed and its performance characteristics determined by NMS Labs. It has not been cleared or approved by the US Food and Drug Administration.

5651SP Barbiturates Confirmation, Serum/Plasma

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

Butabarbital	5.0	mcg/mL	0.20
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.			
Butalbital	5.0	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	5.0	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	5.0	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	5.0	mcg/mL	0.20
Synonym(s): Seconal®			

Results for sample 20001263-001 are continued on next page

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Matrix Serum or Plasma
Patient Name 8101SP-POS
Patient ID 8101SP-POS

Collect Dt/Tm Not Given
Source Not Given

Analysis and Comments	Result	Units	Reporting Limit	Notes
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	5.0	mcg/mL	0.50	
Synonym(s): Luminal®				
Serum/plasma concentrations of 10 - 30 mcg/mL are generally considered desirable when given as an anticonvulsant.				

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5657SP Phencyclidine Confirmation, Serum/Plasma

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

Phencyclidine	50	ng/mL	5.0	
Synonym(s): Angel Dust; PCP; Sherm				

This test was developed and its performance characteristics determined by NMS Labs. It has not been cleared or approved by the US Food and Drug Administration.

5682SP Methadone and Metabolite Confirmation, Serum/Plasma

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

Methadone	50	ng/mL	20	
Synonym(s): Dolophine®				
Usual narcotic stabilization range: 50 - 1000 ng/mL.				
EDDP	50	ng/mL	20	
Synonym(s): Methadone Metabolite				

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Results for sample 20001263-001 are continued on next page

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Patient Name 8101SP-POS
Patient ID 8101SP-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	20	
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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Collect Dt/Tm Not Given
Source Not Given

Analysis and Comments	Result	Units	Reporting Limit	Notes
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® 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 l 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 l enantiomer ratio determination.				
MDA	50	ng/mL	5.0	
Synonym(s): 3,4-Methylenedioxyamphetamine; Adam; 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	

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Patient ID 8101SP-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-methylenedioxyethylamphetamine; Eve				
A single oral 140 mg dose given to 6 adults produced peak plasma concentrations that averaged 260 ng/mL at 2.2 hours.				

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