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

CONFIDENTIAL

Demo Report

Report Issued 04/27/2023 08:58

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

Patient Name 8096SP-POS
Patient ID 8096SP-POS
Chain 23000914
DOB Not Given
Sex Not Given
Workorder 23000914

Received 04/26/2023

Lab ID 23000914-001
Matrix Serum or Plasma
Patient Name 8096SP-POS
Patient ID 8096SP-POS
Container Type Black Cap Glass Container

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
8096SP Drugs of Abuse Screen (10 Panel), Serum/Plasma				
Analysis by Enzyme-Linked Immunosorbent Assay (ELISA)				
Opiates	See Comment	ng/mL	20	
Synonym(s): Codeine; Heroin; Morphine; Opium				
Comment: Based on this screening result, confirmation testing was performed. Refer to the confirmation test result(s).				
Cocaine / Metabolites	See Comment	ng/mL	20	
Synonym(s): Blow; Crack; Snow				
Comment: Based on this screening result, confirmation testing was performed. Refer to the confirmation test result(s).				
Benzodiazepines	See Comment	ng/mL	100	
Synonym(s): Sedative; Tranquilizer				
Comment: Based on this screening result, confirmation testing was performed. Refer to the confirmation test result(s).				
Cannabinoids	See Comment	ng/mL	10	
Synonym(s): Cannabis; Hashish; Marihuana; Marijuana; THC				
Comment: Based on this screening result, confirmation testing was performed. Refer to the confirmation test result(s).				

Results for sample 23000914-001 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

Analysis and Comments	Result	Units	Reporting Limit	Notes
Amphetamines	See Comment	ng/mL	20	
Synonym(s): Adderall; Amfetamine; Dextroamphetamine; Levoamphetamine				
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	
Synonym(s): Desoxyn®; Ecstasy; Meth; Molly				
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.

50002SP Amphetamines Confirmation, Serum/Plasma

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

Amphetamine	10	ng/mL	5.0	
Amphetamine is a drug as well as the metabolite of Methamphetamine. Benzphetamine is rapidly metabolized to Amphetamine and Methamphetamine.				
Methamphetamine	10	ng/mL	5.0	

Results for sample 23000914-001 are continued on next page

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Patient Name 8096SP-POS
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Collect Dt/Tm Not Given
Source Not Given

Analysis and Comments	Result	Units	Reporting Limit	Notes
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. Benzphetamine is rapidly metabolized to Amphetamine and Methamphetamine.				
MDA	10	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	10	ng/mL	5.0	
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.				

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50011SP Barbiturates Confirmation, Serum/Plasma

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

Butalbital	0.50	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.				
Pentobarbital	0.50	mcg/mL	0.20	

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Patient Name 8096SP-POS
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Collect Dt/Tm Not Given
Source Not Given

Analysis and Comments	Result	Units	Reporting Limit	Notes
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	0.50	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	1.0	mcg/mL	0.50	
Synonym(s): Luminal®				
Recommended serum concentration range during anticonvulsant therapy with primidone: 10-40 mcg/mL.				

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50012SP Benzodiazepines Confirmation, Serum/Plasma

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

Diazepam	40	ng/mL	20	
Synonym(s): Valium®				
Therapeutic range: 100-1000 ng/mL.				
Nordiazepam	40	ng/mL	20	
Synonym(s): Chlordiazepoxide Metabolite				
Nordiazepam therapeutic range: 100-1000 ng/mL.				
Also a metabolite of chlordiazepoxide, clorazepate, diazepam, halazepam, and prazepam.				
Oxazepam	40	ng/mL	20	
Synonym(s): Serax®				

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Lab ID 23000914-001
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
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. As a metabolite of Temazepam, low concentrations may be observed.				
Temazepam	40	ng/mL	20	
Synonym(s): Normison®; Diazepam Metabolite 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	40	ng/mL	20	
Synonym(s): Urbanyl®; Frisium® Clobazam is a benzodiazepine drug used as an anxiolytic and antiseizure medication. It is also employed as an adjunctive therapy for the treatment of seizures in patients with Lennox-Gastaut syndrome. The average (range) peak plasma concentrations reported following a single 20 mg dose was 465 (222-709) ng/mL. Reported average steady-state plasma concentrations of 1076 ng/mL and 2884 ng/mL were reported following 40 mg/day and 160 mg/day doses, respectively. The mean concentrations of clobazam did not differ between CYP2C19 extensive and poor metabolizers. The recommended therapeutic range for clobazam is 30-300 ng/mL.				
Chlordiazepoxide	40	ng/mL	20	
Synonym(s): Librium® Therapeutic range: 400-2000 ng/mL.				
Lorazepam	10	ng/mL	5.0	
Synonym(s): Ativan® Therapeutic range: 50-240 ng/mL.				

Results for sample 23000914-001 are continued on next page

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Patient Name 8096SP-POS
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Collect Dt/Tm Not Given
Source Not Given

Analysis and Comments	Result	Units	Reporting Limit	Notes
Clonazepam	4.0	ng/mL	2.0	
Synonym(s): Klonopin®				
Therapeutic range: 10-75 ng/mL. Toxic: Greater than 100 ng/mL.				
7-Amino Clonazepam	10	ng/mL	5.0	
Synonym(s): Clonazepam Metabolite				
Plasma concentrations following chronic therapy with 6 mg/day of Clonazepam: 20-140 ng/mL.				
Alprazolam	10	ng/mL	5.0	
Synonym(s): Xanax®				
Therapeutic range: 10-100 ng/mL. Potentially toxic at greater than 100 ng/mL.				
Alpha-Hydroxyalprazolam	10	ng/mL	5.0	
Synonym(s): Alprazolam Metabolite				
Alpha-Hydroxyalprazolam has approximately 66% of the pharmacological activity of Alprazolam.				
Midazolam	10	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	4.0	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	10	ng/mL	5.0	

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Patient Name 8096SP-POS
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Collect Dt/Tm Not Given
Source Not Given

Analysis and Comments	Result	Units	Reporting Limit	Notes
Synonym(s): Triazolam Metabolite				
Hydroxytriazolam has 50 to 100% of the pharmacological activity of triazolam.				
Hydroxyethylflurazepam	10	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	10	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	4.0	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	10	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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50013SP Cannabinoids Confirmation, Serum/Plasma

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

11-Hydroxy Delta-9 THC	2.0	ng/mL	1.0	
Synonym(s): Active Metabolite				

Results for sample 23000914-001 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

Analysis and Comments	Result	Units	Reporting Limit	Notes
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	10	ng/mL	5.0	
Synonym(s): Inactive Metabolite				
THCC may be detectable, with a 0.5 ng/mL cutoff, over 54 hours in occasional cannabis users and over 72 hours in chronic, frequent cannabis users. Usually not detectable after passive inhalation. THCC is an inactive dronabinol metabolite.				
Delta-9 THC	1.0	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.				

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.

50014SP Cocaine and Metabolites Confirmation, Serum/Plasma

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

Benzoylecgonine	100	ng/mL	50	
Synonym(s): Cocaine Degradation Product				
Cocaine	20	ng/mL	10	
Following oral or nasal intake of 2 mg/kg: Up to 200 ng/mL.				
Cocaethylene	20	ng/mL	10	
Synonym(s): Cocaine/Ethanol By-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.

50015SP Methadone and Metabolite Confirmation, Serum/Plasma

Results for sample 23000914-001 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

Analysis and Comments	Result	Units	Reporting Limit	Notes
Analysis by High Performance Liquid Chromatography/ Tandem Mass Spectrometry (LC-MS/MS)				
Methadone	40	ng/mL	20	
Synonym(s): Dolophine®				
Usual narcotic stabilization range: 50-1000 ng/mL.				
EDDP	40	ng/mL	20	
Synonym(s): Methadone Metabolite				

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.

50016SP Opiates - Free (Unconjugated) Confirmation, Serum/Plasma

Analysis by High Performance Liquid Chromatography/ Tandem Mass Spectrometry (LC-MS/MS)				
Dihydrocodeine / Hydrocodol - Free	10	ng/mL	5.0	
Synonym(s): Hydrocodone Metabolite				
Adult therapeutic range: 72-150 ng/mL.				
Codeine - Free	10	ng/mL	5.0	
Adult therapeutic range: 20-210 ng/mL.				
Morphine - Free	10	ng/mL	5.0	
Synonym(s): Codeine Metabolite				
Adult therapeutic range: <73 ng/mL.				
Hydrocodone - Free	10	ng/mL	5.0	
Synonym(s): Vicodin®; Zohydro®				
Adult therapeutic range: 6-29 ng/mL.				
6-Monoacetylmorphine - Free	2.0	ng/mL	1.0	
Synonym(s): Heroin Metabolite; 6-MAM				
6-Monoacetylmorphine is a metabolite of heroin.				
Hydromorphone - Free	2.0	ng/mL	1.0	
Synonym(s): Hydrocodone Metabolite; Dilaudid®				
Adult therapeutic range: 5-20 ng/mL.				

Results for sample 23000914-001 are continued on next page

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Patient Name 8096SP-POS
Patient ID 8096SP-POS

Collect Dt/Tm Not Given
Source Not Given

Analysis and Comments	Result	Units	Reporting Limit	Notes
Oxycodone - Free	10	ng/mL	5.0	
Synonym(s): OxyContin®; Roxicodone®				
Adult therapeutic range: 13-120 ng/mL.				
Oxymorphone - Free	2.0	ng/mL	1.0	
Synonym(s): Opana®; Oxycodone Metabolite; Numorphan®				
Adult therapeutic range: 3-8 ng/mL.				

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.

50017SP Phencyclidine Confirmation, Serum/Plasma

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

Phencyclidine	10	ng/mL	5.0	
Synonym(s): PCP; Angel Dust; Sherm				

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