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

CONFIDENTIAL

Demo Report

Report Issued 01/23/2023 06:34
Last Report Issued 01/23/2023 06:34

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

Patient Name 8061B-POS
Patient ID 8061B-POS
Chain 20000806
DOB Not Given
Sex Not Given
Workorder 20000806
Received 03/31/2020

Lab ID 20000806-001
Matrix Blood
Patient Name 8061B-POS
Patient ID 8061B-POS
Container Type Clear vial

Collect Dt/Tm Not Given
Source Not Given

Approx Vol/Weight Not Given

Receipt Notes None Entered

Results were removed from report on 10/27/2022.

Analysis and Comments	Result	Units	Reporting Limit	Notes
8061B Postmortem, Basic w/o Alcohol, Blood (Forensic)				
Analysis by Enzyme-Linked Immunosorbent Assay (ELISA)				
Opiates	None Detected	ng/mL	20	
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	None Detected	ng/mL	20	
Barbiturates	None Detected	mcg/mL	0.040	
Methadone / Metabolite	None Detected	ng/mL	25	
Phencyclidine	None Detected	ng/mL	10	
Synonym(s): Angel Dust; PCP; Sherm				

Results for sample 20000806-001 are continued on next page

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Matrix Blood
Patient Name 8061B-POS
Patient ID 8061B-POS

Collect Dt/Tm Not Given
Source Not Given

Analysis and Comments	Result	Units	Reporting Limit	Notes
Fentanyl / Acetyl Fentanyl	See Comment	ng/mL	0.50	
Comment: Based on this screening result, confirmation testing was performed. Refer to the confirmation test result(s).				
Methamphetamine / MDMA	None Detected	ng/mL	20	
Oxycodone / Oxymorphone	None Detected	ng/mL	10	
Buprenorphine / Metabolite	None Detected	ng/mL	0.50	
Synonym(s): Buprenex®; Suboxone®; Subutex®; Temgesic®				

50012B Benzodiazepines Confirmation, Blood

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

Diazepam	None Detected	ng/mL	20	
Synonym(s): Valium®				
Therapeutic range: 100 - 1000 ng/mL.				
Nordiazepam	None Detected	ng/mL	20	
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). The blood to plasma ratio of nordiazepam is 0.6.				
Oxazepam	None Detected	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	None Detected	ng/mL	20	
Synonym(s): Diazepam Metabolite; Normison®				

Results for sample 20000806-001 are continued on next page

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Collect Dt/Tm Not Given
Source Not Given

Analysis and Comments	Result	Units	Reporting Limit	Notes
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	None Detected	ng/mL	20	
Synonym(s): Frisium®; Urbanyl® 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	None Detected	ng/mL	20	
Synonym(s): Librium® Therapeutic range: 400 - 2000 ng/mL.				
Lorazepam	None Detected	ng/mL	5.0	
Synonym(s): Ativan® Therapeutic range: 50 - 240 ng/mL.				
Clonazepam	None Detected	ng/mL	2.0	
Synonym(s): Klonopin® Therapeutic range: 10 - 75 ng/mL. Toxic: Greater than 100 ng/mL.				
7-Amino Clonazepam	None Detected	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	None Detected	ng/mL	5.0	

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Source Not Given

Analysis and Comments	Result	Units	Reporting Limit	Notes
Synonym(s): Alprazolam Metabolite Alpha-Hydroxyalprazolam has approximately 66% of the pharmacological activity of Alprazolam.				
Midazolam	None Detected	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	None Detected	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	None Detected	ng/mL	5.0	
Synonym(s): Triazolam Metabolite Hydroxytriazolam has 50 to 100% of the pharmacological activity of Triazolam.				
Hydroxyethylflurazepam	None Detected	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	None Detected	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	None Detected	ng/mL	2.0	

Results for sample 20000806-001 are continued on next page

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Patient ID 8061B-POS

Collect Dt/Tm Not Given
Source Not Given

Analysis and Comments	Result	Units	Reporting Limit	Notes
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	None Detected	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).				

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.

50014B Cocaine and Metabolites Confirmation, Blood

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

Benzoylecgonine	None Detected	ng/mL	50	
Synonym(s): Cocaine Degradation Product				
Cocaine	20	ng/mL	10	
Cocaethylene	None Detected	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.

52198B Cannabinoids Confirmation, Blood

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

11-Hydroxy Delta-9 THC	None Detected	ng/mL	1.0	
Synonym(s): Active Metabolite				

Results for sample 20000806-001 are continued on next page

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Lab ID 20000806-001
Matrix Blood
Patient Name 8061B-POS
Patient ID 8061B-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	None Detected	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				
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.				

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52484B Fentanyl and Acetyl Fentanyl Confirmation, Blood

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

Fentanyl	5.0	ng/mL	0.10	
Synonym(s): Sublimaze®; Duragesic®				

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Lab ID 20000806-001
Matrix Blood
Patient Name 8061B-POS
Patient ID 8061B-POS

Collect Dt/Tm Not Given
Source Not Given

Analysis and Comments	Result	Units	Reporting Limit	Notes
Immediately following a single 2 mcg/kg I.V. dose: Up to 11 ng/mL, declining to 1 ng/mL after one hour. Following the application of a 100 mcg/hour transdermal patch, serum levels (after an initial lag time of approximately six hours) of 0.8 - 2.6 ng/mL were maintained for more than 24 hours after application. Peak plasma levels following a single oral transmucosal dose (Fentanyl Oralet) of 15 mcg/kg to children: 2 - 4 ng/mL at 20 minutes. Substance(s) known to interfere with the identity and/or quantity of the reported result: 4-methylphenethyl acetyl fentanyl				
Norfentanyl	None Detected	ng/mL	0.20	
Synonym(s): Fentanyl Metabolite				
Substance(s) known to interfere with the identity and/or quantity of the reported result: Benzyl Fentanyl				
Acetyl Fentanyl	None Detected	ng/mL	0.10	
Acetyl fentanyl is a novel non-prescription synthetic opioid that has been implicated in several deaths.				

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