



NMS Labs

CONFIDENTIAL

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

Demo Report

Report Issued 08/23/2021 06:38
Last Report Issued 06/07/2021 06:58

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

Patient Name 1876B-POS
Patient ID 1876B-POS
Chain 21000839
Age Not Given DOB Not Given
Gender Not Given
Workorder 21000839
Received 06/02/2021 07:39

Sample ID 21000839-001
Matrix Blood
Patient Name 1876B-POS
Patient ID 1876B-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. Contains drug screening results for Salicylates, Cannabinoids, Barbiturates, 6-Monoacetylmorphine, and Acetyl Fentanyl.

Results for sample 21000839-001 are continued on next page



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Sample ID 21000839-001
Matrix Blood
Patient Name 1876B-POS
Patient ID 1876B-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).				
Alprazolam	See Comment	ng/mL	10	
Synonym(s): Xanax®				
Comment: Based on this screening result, confirmation testing was performed. Refer to the confirmation test result(s).				
Cocaine	See Comment	ng/mL	20	
Comment: Based on this screening result, confirmation testing was performed. Refer to the confirmation test result(s).				
Fentanyl	See Comment	ng/mL	1.0	
Synonym(s): Duragesic®; Sublimaze®				
Comment: Based on this screening result, confirmation testing was performed. Refer to the confirmation test result(s).				
Morphine	See Comment	ng/mL	10	
Comment: Based on this screening result, confirmation testing was performed. Refer to the confirmation test result(s).				
Scope Statement	See Comment			
Comment: The following is a general list of analyte classes included in this screen. The detection of any specific analyte is concentration-dependent. Note, not all known analytes in each specified analyte class are included. Some specific analytes outside of these classes are also included. For a detailed list of all analytes and reporting limits included in this screen, please contact NMS Labs. Amphetamines, Anticonvulsants, Antidepressants, Antihistamines, Antipsychotic Agents, Benzodiazepines, CNS Stimulants, Cocaine and Metabolites, Hallucinogens, Hypnotics, Hypoglycemics, Muscle Relaxants, Non-Steroidal Anti-Inflammatory Agents, Opiates and Opioids.				

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.

50001B Salicylate Confirmation, Blood

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

Salicylate	50	mcg/mL	5.0
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Results for sample 21000839-001 are continued on next page



Sample ID 21000839-001
Matrix Blood
Patient Name 1876B-POS
Patient ID 1876B-POS

Collect Dt/Tm Not Given
Source Not Given

Analysis and Comments	Result	Units	Reporting Limit	Notes
<p>Analgesic range: 20 - 100 mcg/mL. Anti-inflammatory range: 150 - 300 mcg/mL. Toxic: Greater than 300 mcg/mL.</p> <p>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.</p>				
50011B Barbiturates Confirmation, Blood				
Analysis by Gas Chromatography/Mass Spectrometry (GC/MS)				
Butalbital	None Detected	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	None Detected	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	None Detected	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	50	mcg/mL	0.50	
Synonym(s): Luminal®				
Serum/plasma concentrations of 10 - 30 mcg/mL are generally considered desirable when given as an anticonvulsant. A blood/plasma ratio of 0.81 has been reported.				

Results for sample 21000839-001 are continued on next page



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Sample ID 21000839-001
Matrix Blood
Patient Name 1876B-POS
Patient ID 1876B-POS

Collect Dt/Tm Not Given
Source Not Given

Table with 5 columns: Analysis and Comments, Result, Units, Reporting Limit, Notes

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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®
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®

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Sample ID 21000839-001
Matrix Blood
Patient Name 1876B-POS
Patient ID 1876B-POS

Collect Dt/Tm Not Given
Source Not Given

Analysis and Comments	Result	Units	Reporting Limit	Notes
<p>Following a single 20 mg oral dose, the mean peak plasma concentration: 465 ng/mL (range, 220 - 710 ng/mL) after 1.7 hours.</p> <p>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.</p>				
<p>Chlordiazepoxide</p> <p>Synonym(s): Librium®</p> <p>Therapeutic range: 400 - 2000 ng/mL.</p>	None Detected	ng/mL	20	
<p>Lorazepam</p> <p>Synonym(s): Ativan®</p> <p>Therapeutic range: 50 - 240 ng/mL.</p>	None Detected	ng/mL	5.0	
<p>Clonazepam</p> <p>Synonym(s): Klonopin®</p> <p>Therapeutic range: 10 - 75 ng/mL. Toxic: Greater than 100 ng/mL.</p>	None Detected	ng/mL	2.0	
<p>7-Amino Clonazepam</p> <p>Synonym(s): Clonazepam Metabolite</p> <p>Plasma concentrations following chronic therapy with 6 mg/day of Clonazepam: 20 - 140 ng/mL.</p>	None Detected	ng/mL	5.0	
<p>Alprazolam</p> <p>Synonym(s): Xanax®</p> <p>Therapeutic range: 10 - 100 ng/mL. Potentially toxic at greater than 100 ng/mL.</p>	50	ng/mL	5.0	
<p>Alpha-Hydroxyalprazolam</p> <p>Synonym(s): Alprazolam Metabolite</p> <p>Alpha-Hydroxyalprazolam has approximately 66% of the pharmacological activity of Alprazolam.</p>	None Detected	ng/mL	5.0	
<p>Midazolam</p> <p>Synonym(s): Versed®</p>	None Detected	ng/mL	5.0	

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Sample ID 21000839-001
Matrix Blood
Patient Name 1876B-POS
Patient ID 1876B-POS

Collect Dt/Tm Not Given
Source Not Given

Analysis and Comments	Result	Units	Reporting Limit	Notes
<p>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.</p>				
<p>Triazolam 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.</p>	None Detected	ng/mL	2.0	
<p>Hydroxytriazolam Synonym(s): Triazolam Metabolite Hydroxytriazolam has 50 to 100% of the pharmacological activity of Triazolam.</p>	None Detected	ng/mL	5.0	
<p>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.</p>	None Detected	ng/mL	5.0	
<p>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.</p>	None Detected	ng/mL	5.0	
<p>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.</p>	None Detected	ng/mL	2.0	
<p>Estazolam</p>	None Detected	ng/mL	5.0	

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Sample ID 21000839-001
Matrix Blood
Patient Name 1876B-POS
Patient ID 1876B-POS

Collect Dt/Tm Not Given
Source Not Given

Table header with columns: 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).

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50013B 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

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 5.0 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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Results for sample 21000839-001 are continued on next page



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Sample ID 21000839-001
Matrix Blood
Patient Name 1876B-POS
Patient ID 1876B-POS

Collect Dt/Tm Not Given
Source Not Given

Analysis and Comments	Result	Units	Reporting Limit	Notes
50014B Cocaine and Metabolites Confirmation, Blood				
Analysis by Gas Chromatography/Mass Spectrometry (GC/MS)				
Benzoylecgonine Synonym(s): Cocaine Degradation Product	500	ng/mL	50	
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	
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.				
50016B Opiates - Free (Unconjugated) Confirmation, Blood				
Analysis by High Performance Liquid Chromatography/Tandem Mass Spectrometry (LC-MS/MS)				
Dihydrocodeine / Hydrocodol - Free Synonym(s): Hydrocodone Metabolite Adult therapeutic range: 72-150 ng/mL.	None Detected	ng/mL	5.0	
Codeine - Free Adult therapeutic range: 20-210 ng/mL.	None Detected	ng/mL	5.0	
Morphine - Free Synonym(s): Codeine Metabolite Adult therapeutic range: <73 ng/mL.	50	ng/mL	5.0	
Hydrocodone - Free Synonym(s): Vicodin®; Zohydro® Adult therapeutic range: 6 - 29 ng/mL.	None Detected	ng/mL	5.0	
6-Monoacetylmorphine - Free Synonym(s): 6-MAM; Heroin Metabolite	50	ng/mL	1.0	

Results for sample 21000839-001 are continued on next page



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Sample ID 21000839-001
Matrix Blood
Patient Name 1876B-POS
Patient ID 1876B-POS

Collect Dt/Tm Not Given
Source Not Given

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

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.

52484B Fentanyl and Acetyl Fentanyl Confirmation, Blood

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 Fentanyl and Norfentanyl.

Results for sample 21000839-001 are continued on next page



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Sample ID 21000839-001

Matrix Blood

Patient Name 1876B-POS

Patient ID 1876B-POS

Collect Dt/Tm Not Given

Source Not Given

Analysis and Comments	Result	Units	Reporting Limit	Notes
Acetyl Fentanyl Acetyl fentanyl is a novel non-prescription synthetic opioid that has been implicated in several deaths.	10	ng/mL	0.20	

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