



NMS Labs

CONFIDENTIAL

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Demo Report

Report Issued 03/15/2021 07:36

Patient Name 8092U-POS
Patient ID 8092U-POS
Chain 20002130
Age Not Given DOB Not Given
Gender Not Given
Workorder 20002130

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

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Positive Findings:

Table with 4 columns: Compound, Result, Units, Matrix Source. Rows include Ethanol, Amlodipine, Alprazolam, Cocaine, 6-Monoacetylmorphine - Free, Gabapentin, and Fentanyl.

See Detailed Findings section for additional information

Testing Requested:

Table with 2 columns: Analysis Code, Description. Row: 8092U, Postmortem, Expert, Urine (Forensic)

Specimens Received:

Table with 5 columns: ID, Tube/Container, Volume/Mass, Collection Date/Time, Matrix Source, Labeled As. Row: 001, Clear vial, Not Given, Not Given, Urine, Not Applicable

All sample volumes/weights are approximations.
Specimens received on 10/20/2020.

Detailed Findings:

Analysis and Comments	Result	Units	Rpt. Limit	Specimen Source	Analysis By
Ethanol	85	mg/dL	10	001 - Urine	Headspace GC
Amlodipine	Positive	ng/mL	50	001 - Urine	GC/MS
Alprazolam	50	ng/mL	5.0	001 - Urine	LC-MS/MS
Cocaine	500	ng/mL	200	001 - Urine	GC/MS
6-Monoacetylmorphine - Free	25	ng/mL	5.0	001 - Urine	LC-MS/MS
Gabapentin	50	mcg/mL	1.0	001 - Urine	LC-MS/MS
Ethanol	Confirmed	mg/dL	10	001 - Urine	Headspace GC
Fentanyl	5.0	ng/mL	1.0	001 - Urine	LC-MS/MS

Other than the above findings, examination of the specimen(s) submitted did not reveal any positive findings of toxicological significance by procedures outlined in the accompanying Analysis Summary.

Reference Comments:

- 6-Monoacetylmorphine - Free (6-MAM; Heroin Metabolite) - Urine:
 6-monoacetylmorphine (6-MAM) is the 6-monoacetylated form of morphine, which is pharmacologically active. When present, it is generally indicative of heroin (diacetylmorphine) use.
- Alprazolam (Xanax®) - Urine:
 Alprazolam is a DEA Schedule IV second-generation benzodiazepine, which is effective at very low doses. It shares the actions of other benzodiazepines in the management of anxiety disorders and short-term relief of anxiety associated with depressive symptoms. Alpha-hydroxyalprazolam is an active metabolite of alprazolam. Common CNS-depressant side effects of alprazolam include drowsiness and fatigue.
- Amlodipine (Norvasc®) - Urine:
 Amlodipine is a calcium-channel blocker widely used for once daily oral treatment of hypertension, chronic stable angina and vasospastic (Prinzmetal's) angina. The reported qualitative result for this substance was based upon a single analysis only. If confirmation testing is required please contact the laboratory.
- Cocaine - Urine:
 Cocaine is a DEA Schedule II controlled central nervous stimulant drug. Effects following cocaine use can include euphoria, excitement, restlessness, risk taking, sleep disturbance, and aggression. A period of mental and physical fatigue and somnolence follow the use of cocaine after the excitant-stimulant effects wear off. Cocaine is metabolized to the inactive compounds benzoylecgonine, ecgonine methyl ester, and ecgonine. Benzoylecgonine and ecgonine methyl ester can form from cocaine breakdown after death and even after sample collection.
- Ethanol (Ethyl Alcohol) - Urine:
 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.
- Fentanyl (Duragesic®; Sublimaze®) - Urine:
 Fentanyl is a DEA Schedule II synthetic morphine substitute anesthetic/analgesic. It is reported to be 80 to 200 times as potent as morphine and has a rapid onset of action as well as addictive properties.

 Signs associated with fentanyl toxicity include severe respiratory depression, seizures, hypotension, coma and death.
- Gabapentin (Neurontin®) - Urine:
 No reference data available.

**Analysis Summary and Reporting Limits:**

All of the following tests were performed for this case. For each test, the compounds listed were included in the scope. The Reporting Limit listed for each compound represents the lowest concentration of the compound that will be reported as being positive. If the compound is listed as None Detected, it is not present above the Reporting Limit. Please refer to the Positive Findings section of the report for those compounds that were identified as being present.

Acode 50011U - Barbiturates Confirmation, Urine

-Analysis by Gas Chromatography/Mass Spectrometry (GC/MS) for:

<u>Compound</u>	<u>Rpt. Limit</u>	<u>Compound</u>	<u>Rpt. Limit</u>
Butalbital	0.20 mcg/mL	Phenobarbital	0.50 mcg/mL
Pentobarbital	0.20 mcg/mL	Secobarbital	0.20 mcg/mL

Acode 50012U - Benzodiazepines Confirmation, Urine

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

<u>Compound</u>	<u>Rpt. Limit</u>	<u>Compound</u>	<u>Rpt. Limit</u>
1-Hydroxymidazolam	5.0 ng/mL	Estazolam	5.0 ng/mL
7-Amino Clonazepam	5.0 ng/mL	Hydroxyethylflurazepam	5.0 ng/mL
Alpha-Hydroxyalprazolam	10 ng/mL	Hydroxytriazolam	5.0 ng/mL
Alprazolam	5.0 ng/mL	Lorazepam	10 ng/mL
Chlordiazepoxide	20 ng/mL	Nordiazepam	20 ng/mL
Clobazam	20 ng/mL	Oxazepam	20 ng/mL
Desalkylflurazepam	5.0 ng/mL	Temazepam	20 ng/mL
Diazepam	20 ng/mL		

Acode 50013U - Cannabinoids Confirmation, Urine

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

<u>Compound</u>	<u>Rpt. Limit</u>	<u>Compound</u>	<u>Rpt. Limit</u>
Delta-9 Carboxy THC - Total	5.0 ng/mL		

Acode 50014U - Cocaine and Metabolites Confirmation, Urine

-Analysis by Gas Chromatography/Mass Spectrometry (GC/MS) for:

<u>Compound</u>	<u>Rpt. Limit</u>	<u>Compound</u>	<u>Rpt. Limit</u>
Benzoyllecgonine	150 ng/mL	Cocaine	200 ng/mL
Cocaethylene	200 ng/mL		

Acode 50016U - Opiates - Free (Unconjugated) Confirmation, Urine

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

<u>Compound</u>	<u>Rpt. Limit</u>	<u>Compound</u>	<u>Rpt. Limit</u>
6-Monoacetylmorphine - Free	5.0 ng/mL	Hydromorphone - Free	5.0 ng/mL
Codeine - Free	25 ng/mL	Morphine - Free	25 ng/mL
Dihydrocodeine / Hydrocodol - Free	25 ng/mL	Oxycodone - Free	25 ng/mL
Hydrocodone - Free	25 ng/mL	Oxymorphone - Free	5.0 ng/mL

Acode 52144U - Gabapentin Confirmation, Urine



Analysis Summary and Reporting Limits:

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

<u>Compound</u>	<u>Rpt. Limit</u>	<u>Compound</u>	<u>Rpt. Limit</u>
Gabapentin	1.0 mcg/mL		

Acode 52250U - Alcohols and Acetone Confirmation, Urine

-Analysis by Headspace Gas Chromatography (GC) for:

<u>Compound</u>	<u>Rpt. Limit</u>	<u>Compound</u>	<u>Rpt. Limit</u>
Acetone	5.0 mg/dL	Isopropanol	5.0 mg/dL
Ethanol	10 mg/dL	Methanol	5.0 mg/dL

Acode 52483U - Amphetamines Confirmation, Urine

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

<u>Compound</u>	<u>Rpt. Limit</u>	<u>Compound</u>	<u>Rpt. Limit</u>
Amphetamine	50 ng/mL	Methamphetamine	50 ng/mL
Ephedrine	50 ng/mL	Norpseudoephedrine	50 ng/mL
MDA	50 ng/mL	Phentermine	50 ng/mL
MDEA	50 ng/mL	Phenylpropanolamine	200 ng/mL
MDMA	50 ng/mL	Pseudoephedrine	50 ng/mL

Acode 52484U - Fentanyl and Acetyl Fentanyl Confirmation, Urine

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

<u>Compound</u>	<u>Rpt. Limit</u>	<u>Compound</u>	<u>Rpt. Limit</u>
Acetyl Fentanyl	0.50 ng/mL	Norfentanyl	1.0 ng/mL
Fentanyl	1.0 ng/mL		

Acode 8092U - Postmortem, Expert, Urine (Forensic)

-Analysis by Enzyme Immunoassay (EIA) for:

<u>Compound</u>	<u>Rpt. Limit</u>	<u>Compound</u>	<u>Rpt. Limit</u>
Benzodiazepines	50 ng/mL	Opiates	300 ng/mL
Cannabinoids	50 ng/mL	Oxycodone / Oxymorphone	100 ng/mL
Cocaine / Metabolites	150 ng/mL		

-Analysis by Enzyme Immunoassay (EIA) for:

<u>Compound</u>	<u>Rpt. Limit</u>	<u>Compound</u>	<u>Rpt. Limit</u>
Buprenorphine / Metabolite	5.0 ng/mL		

-Analysis by Enzyme-Linked Immunosorbent Assay (ELISA) for:

<u>Compound</u>	<u>Rpt. Limit</u>	<u>Compound</u>	<u>Rpt. Limit</u>
Salicylates	120 mcg/mL		



Analysis Summary and Reporting Limits:

-Analysis by Gas Chromatography/Mass Spectrometry (GC/MS) for: The following is a general list of compound classes included in the Gas Chromatographic screen. The detection of any particular compound is concentration-dependent. Please note that not all known compounds included in each specified class or heading are included. Some specific compounds outside these classes are also included. For a detailed list of all compounds and reporting limits included in this screen, please contact NMS Labs.

Amphetamines, Analgesics (opioid and non-opioid), Anorectics, Antiarrhythmics, Anticholinergic Agents, Anticonvulsant Agents, Antidepressants, Antiemetic Agents, Antihistamines, Antiparkinsonian Agents, Antipsychotic Agents, Antitussive Agents, Antiviral Agents, Calcium Channel Blocking Agents, Cardiovascular Agents (non-digitalis), Local Anesthetics Agents, Muscle Relaxants and Stimulants (Amphetamine-like and others).

-Analysis by Gas Chromatography/Mass Spectrometry (GC/MS) for: Anesthetics, Anticoagulant Agents, Antifungal Agents, Antihypertensive Agents, Anxiolytics (Benzodiazepine and others), Hypnosedatives (Barbiturates, Non-Benzodiazepine Hypnotics, and others) and Non-Steroidal Anti-Inflammatory Agents (excluding Salicylate).

-Analysis by Headspace Gas Chromatography (GC) for:

<u>Compound</u>	<u>Rpt. Limit</u>	<u>Compound</u>	<u>Rpt. Limit</u>
Acetone	5.0 mg/dL	Isopropanol	5.0 mg/dL
Ethanol	10 mg/dL	Methanol	5.0 mg/dL