



NMS Labs

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Demo Report

Report Issued 04/02/2020 12:08

Patient Name 8051U-POS
Patient ID 8051U-POS
Chain 20000788
Age Not Given DOB Not Given
Gender Not Given
Workorder 20000788

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, Alprazolam, Delta-9 Carboxy THC - Total, Cocaine, and Fentanyl.

See Detailed Findings section for additional information

Testing Requested:

Table with 2 columns: Analysis Code, Description. Row: 8051U, Postmortem, Basic, Urine (Forensic)

Specimens Received:

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

All sample volumes/weights are approximations.
Specimens received on 03/31/2020.

**Detailed Findings:**

Analysis and Comments	Result	Units	Rpt. Limit	Specimen Source	Analysis By
Ethanol	85	mg/dL	10	001 - Urine	Headspace GC
Alprazolam	50	ng/mL	5.0	001 - Urine	LC-MS/MS
Delta-9 Carboxy THC - Total	50	ng/mL	5.0	001 - Urine	LC-MS/MS
Cocaine	500	ng/mL	200	001 - Urine	GC/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:

1. 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.
2. 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.
3. Delta-9 Carboxy THC - Total (Inactive Metabolite) - Urine:
Marijuana is a DEA Schedule I hallucinogen. Collectively, the chemical compounds that comprise marijuana are known as Cannabinoids.

Delta-9-THC is the principle psychoactive ingredient of marijuana/hashish. Delta-9-carboxy-THC (THCC) is the inactive metabolite of THC.
4. 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.
5. 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.

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 50012U - Benzodiazepines Confirmation, Urine

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



Analysis Summary and Reporting Limits:

<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 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 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 8051U - Postmortem, Basic, Urine (Forensic)

-Analysis by Enzyme Immunoassay (EIA) for:

<u>Compound</u>	<u>Rpt. Limit</u>	<u>Compound</u>	<u>Rpt. Limit</u>
Barbiturates	0.30 mcg/mL	Methadone / Metabolite	300 ng/mL
Benzodiazepines	50 ng/mL	Opiates	300 ng/mL
Cannabinoids	50 ng/mL	Oxycodone / Oxymorphone	100 ng/mL
Cocaine / Metabolites	150 ng/mL	Phencyclidine	25 ng/mL

-Analysis by Enzyme Immunoassay (EIA) for:

<u>Compound</u>	<u>Rpt. Limit</u>	<u>Compound</u>	<u>Rpt. Limit</u>
Amphetamines	500 ng/mL	Fentanyl / Acetyl Fentanyl	2.0 ng/mL
Buprenorphine / Metabolite	5.0 ng/mL	MDMA	300 ng/mL



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Workorder 20000788
Chain 20000788
Patient ID 8051U-POS

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Analysis Summary and Reporting Limits:

-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