



NMS Labs

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Toxicology Report

Report Issued 04/14/2026 17:00

To: 10106

Maricopa County Office of the Medical Examiner
Attn: Toxicology Lab
701 W. Jefferson Street
Phoenix, AZ 85007

Patient Name UNIDENTIFIED, REMAINS
Patient ID 2026-03414
Chain NMSCP528155
DOB Not Given
Sex Not Given
Workorder 26144449

Positive Findings:

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Matrix Source</u>
Ethanol	100	mg/100 g	002 - Liver Tissue
Caffeine	Presump Pos	mcg/g	002 - Liver Tissue
Fentanyl	100	ng/g	002 - Liver Tissue
Norfentanyl	5.3	ng/g	002 - Liver Tissue

See Detailed Findings section for additional information

Testing Requested:

<u>Test</u>	<u>Test Name</u>
8052TI	Postmortem, Expanded, Tissue (Forensic)

Specimens Received:

<u>ID</u>	<u>Tube/Container</u>	<u>Volume/ Mass</u>	<u>Collection Date/Time</u>	<u>Matrix Source</u>	<u>Labeled As</u>
001	White Cap Plastic Container	51.5 g	03/29/2026 08:50	Liver Tissue	2026-03414
002	Homogenate Container	Not Given	03/29/2026 08:50	Liver Tissue	Not Applicable
002 NMS Labs generated homogenized sample; Source sample: 26144449-001					

All sample volumes/weights are approximations.
Specimens received on 03/31/2026.

Detailed Findings:

Analysis and Comments	Result	Units	Rpt. Limit	Specimen Source	Analysis By
Ethanol	100	mg/100 g	80	002 - Liver Tissue	Headspace GC
Caffeine	Presump Pos	mcg/g	0.40	002 - Liver Tissue	GC/MS
This test is an unconfirmed screen. Confirmation by a more definitive technique is recommended.					
Ethanol	Confirmed	mg/100 g	40	002 - Liver Tissue	Headspace GC
Fentanyl	100	ng/g	2.0	002 - Liver Tissue	LC-MS/MS
Norfentanyl	5.3	ng/g	4.0	002 - Liver Tissue	LC-MS/MS

Examination of the specimen(s) submitted did not reveal any reportable findings by procedure(s) outlined in the accompanying Analysis Summary, other than those listed above. Interpretation of reported findings should be based on the totality of available case information. Reference information is not case-specific but is provided as a general guide.

Reference Comments:

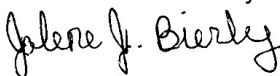
1. Ethanol (Ethyl Alcohol) - Liver Tissue:
Ethyl alcohol (ethanol, drinking alcohol) is a central nervous system depressant and can cause effects such as impaired judgment, reduced alertness and impaired muscular coordination. Ethanol can also be a product of decomposition or degradation of biological samples.
2. Fentanyl (Duragesic®; Sublimaze®) - Liver Tissue:
Fentanyl is a potent prescription opioid used as a pain reliever or sedative. The primary metabolite, norfentanyl, is inactive. Signs associated with fentanyl toxicity include severe respiratory depression, muscle rigidity, seizures, hypotension, coma, and death.
3. Norfentanyl (Fentanyl Metabolite) - Liver Tissue:
Norfentanyl is an inactive metabolite of the synthetic narcotic analgesic fentanyl.

Sample Comments:

001 Physician/Pathologist Name: DR.K.COCHRANE

Unless alternate arrangements are made by you, the remainder of the submitted specimens will be discarded two (2) years from the date of this report; and generated data will be discarded five (5) years from the date the analyses were performed.

Workorder 26144449 was electronically signed on
04/14/2026 16:39 by:



Jolene J. Bierly, M.S.F.S., D-ABFT-FT
Forensic Toxicologist

Analysis Summary and Reporting Limits:

The following test(s) were performed for this case; the scope of each test includes the analyte(s) listed along with the associated reporting limit(s). The reporting limit is the lowest concentration of the analyte that will be reported as positive. Only results that meet reporting criteria at or above the reporting limit appear in the Positive Findings section of the report.

Test 52250TI - Alcohols and Acetone Confirmation, Tissue: 002 - Liver Tissue

-Analysis by Headspace Gas Chromatography (GC) for:

<u>Analyte</u>	<u>Rpt. Limit</u>	<u>Analyte</u>	<u>Rpt. Limit</u>
Acetone	20 mg/100 g	Isopropanol	20 mg/100 g
Ethanol	40 mg/100 g	Methanol	40 mg/100 g

Test 52483TI - Amphetamines Confirmation, Tissue: 002 - Liver Tissue

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

<u>Analyte</u>	<u>Rpt. Limit</u>	<u>Analyte</u>	<u>Rpt. Limit</u>
Amphetamine	80 ng/g	Methamphetamine	80 ng/g
Ephedrine	80 ng/g	Norpseudoephedrine	80 ng/g
MDA	80 ng/g	Phentermine	80 ng/g
MDEA	80 ng/g	Phenylpropanolamine	80 ng/g
MDMA	80 ng/g	Pseudoephedrine	80 ng/g

Test 52484TI - Fentanyl and Acetyl Fentanyl Confirmation, Tissue: 002 - Liver Tissue

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

<u>Analyte</u>	<u>Rpt. Limit</u>	<u>Analyte</u>	<u>Rpt. Limit</u>
Acetyl Fentanyl	2.0 ng/g	Norfentanyl	4.0 ng/g
Fentanyl	2.0 ng/g		

Test 8052TI - Postmortem, Expanded, Tissue (Forensic): 002 - Liver Tissue

-Analysis by Colorimetry (C) for:

<u>Analyte</u>	<u>Rpt. Limit</u>	<u>Analyte</u>	<u>Rpt. Limit</u>
Salicylates	800 mcg/g		

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

<u>Analyte</u>	<u>Rpt. Limit</u>	<u>Analyte</u>	<u>Rpt. Limit</u>
Benzodiazepines	400 ng/g	Cocaine / Metabolites	80 ng/g
Buprenorphine / Metabolite	2.0 ng/g	Opiates	80 ng/g
Cannabinoids	40 ng/g	Oxycodone / Oxymorphone	40 ng/g

-Analysis by Gas Chromatography/Mass Spectrometry (GC/MS) for: The following is a general list of analyte classes included in the Gas Chromatography Mass Spectrometry screen. The detection of any specific analyte is concentration-dependent. Note, not all known analytes included in each specified 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, Analgesics (opioid and non-opioid), Anorectics, Antiarrhythmics, Anticholinergics, Anticonvulsants, Antidepressants, Antihistamines, Antiparkinsonians, Antipsychotics, Antitussives, Antivirals, Cardiovascular Agents (non-digitalis), Muscle Relaxants and Stimulants (Amphetamine-like and others).



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Workorder

26144449

Chain

NMSCP528155

Patient ID

2026-03414

Analysis Summary and Reporting Limits:

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

-Analysis by Headspace Gas Chromatography (GC) for:

<u>Analyte</u>	<u>Rpt. Limit</u>	<u>Analyte</u>	<u>Rpt. Limit</u>
Acetone	20 mg/100 g	Isopropanol	20 mg/100 g
Ethanol	80 mg/100 g	Methanol	40 mg/100 g

Analysis by Gas Chromatography/Mass Spectrometry (GC/MS): Some analytes may not be detected due to the nature of the specimen.

End of Report