

**Cuyahoga County Regional Forensic Science Laboratory**  
**11001 Cedar Avenue, Cleveland, OH 44106**



**TOXICOLOGY LABORATORY FINAL REPORT**

Report Date: 10/13/2022  
 CCRFSL Case: 2022-007891  
 Agency Case: IN2022-01648  
 Agency Representative: Thomas Gilson

Individual: Roquemore, Maalik Amir  
 Submitting Agency: Cuyahoga County Medical Examiners Office  
 Address: 11001 Cedar Avenue, Cleveland, OH 44106

**Specimen(s) Received**

Lab Item #	Description	Receipt/Accessioning Date
016	Femoral Blood 1	09/07/2022
017	Heart Blood 1	09/07/2022
018	Urine 1	09/07/2022
019	Bile 1	09/07/2022
020	Vitreous Humor 1	09/07/2022
021	Vitreous Humor 2	09/07/2022
022	Gastric Contents	09/07/2022
023	Long Term Storage 1	09/07/2022
024	Long Term Storage 2	09/07/2022
025	Liver 1	09/07/2022
026	Brain 1	09/07/2022

**Item: 016: Femoral Blood 1**

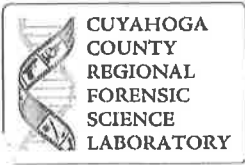
Drug Group/Class	Result	Quantitation
<b>Basic Drugs by GC/MS</b>		
Nicotine	Positive	
Cotinine	Positive	
<b>Cannabinoids Confirmation by LC-MS/MS</b>		
Delta-9-THC	Positive	6.9 ± 1.1 ng/mL
11-OH-Delta-9-THC	Positive	<2.0 ng/mL
Delta-9-THCCOOH	Positive	13 ± 3 ng/mL
<b>ELISA</b>		
SEE CONFIRMATION		
<b>Volatiles Screening and Confirmation by GC/FID</b>		
Ethanol	Positive	0.082 ± 0.006 g/dL

**Item: 018: Urine 1**

Drug Group/Class	Result	Quantitation
<b>Basic Drugs by GC/MS</b>		
Quantity Not Sufficient		

**Item: 020: Vitreous Humor 1**

Drug Group/Class	Result	Quantitation
<b>Volatiles Screening and Confirmation by GC/FID</b>		



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Ethanol	Positive	0.093 ± 0.007 g/dL
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COMMENTS:

All laboratory activities related to this case were completed between the date the evidence was received, as noted in this report, and the report's issue date. Specific activity dates are maintained in the case file for this case.

The result(s) in this report relate only to the items tested. Other specimens received will be held with the case (not tested).

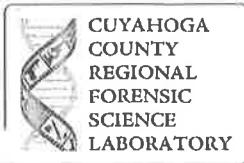
'None Detected/Not Performed' in ELISA testing indicates that there were no positive signals in the ELISA (confirmation testing not performed).

Where quantitative results have been provided, method uncertainty is determined at a CL of 95.45%. 'Mass Spectrum Match Only' denotes the finding has not been confirmed against the retention time of a reference standard.

Specimens submitted for this case will be held for one year prior to disposal. Please notify Toxicology if the specimens are to be held for a longer period of time.

This report shall not be reproduced, except in full, and with written approval of the Cuyahoga County Regional Forensic Science Laboratory.

Supervisor, Toxicology Unit Eric Lavins  
Eric Lavins



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**Analysis Summary**

**VOLATILES SCREENING AND CONFIRMATION by GC/FID:** Ethanol, Methanol, Acetone, Isopropanol. **VOLATILES by GC/MS:** includes (but not limited to) Acetaldehyde, Acetone, Chloroform, Dichloromethane, Ethanol, Ethyl Acetate, Isopropanol, Methanol, Toluene

**ACIDIC/NEUTRAL DRUGS by GC/MS and GC/FID:** Butalbital, Caffeine, Carbamazepine, Carisoprodol, Ibuprofen, Levetiracetam, Meprobamate, Metaxalone, Pentobarbital, Phenobarbital, Phenytoin

**CARBON MONOXIDE by CO-Oximetry:** Carbon Monoxide (Carboxyhemoglobin)

**GLYCOLS CONFIRMATION by GC/MS:** Ethylene Glycol, Propylene Glycol

**GABAPENTIN/PREGABALIN CONFIRMATION by LC-MS/MS:** Gabapentin, Pregabalin

**ELISA (Enzyme-Linked Immunosorbent Assay) SCREEN:** Amphetamine (Target = d-Amphetamine); Barbiturates (Target = Pentobarbital); Benzodiazepines (Target = Alprazolam); Cannabinoids (Target = 11-nor- $\Delta$ -9-THC-COOH (marijuana metabolite)); Carisoprodol (Target = Carisoprodol); Cocaine Metabolite (Target = Benzoylecgonine); Fentanyl (Target = Fentanyl); Methamphetamine (Target = d-Methamphetamine); Oxycodone (Target = Oxycodone); Phencyclidine (Target = Phencyclidine); Tricyclic Antidepressants (Target = Nortriptyline); Methadone (Target = Methadone); Opiates (Target = Morphine); Zolpidem (Target = Zolpidem); Buprenorphine (Target = Buprenorphine)

**BASIC DRUGS by GC/MS (screening and confirmation):** includes common antidepressants, opioids/narcotic analgesics, CNS stimulants, antipsychotics, antiarrhythmics, dissociative anesthetics, antihistamines, hypnotics/sedatives/anxiolytics, muscle relaxants, cathinones, and other agents

**ACETAMINOPHEN and SALICYLATES SCREEN by Colorimetry (Qualitative):** Acetaminophen, Salicylates

**PHENCYCLIDINE (PCP) CONFIRMATION by GC/MS:** Phencyclidine

**CLINICAL CHEMISTRIES:** Sodium, Potassium, Chloride, Glucose, Urea (as VUN), Creatinine, Magnesium, Calcium, Lactate

**COCAINE AND METABOLITES CONFIRMATION by GC/MS:** Benzoylecgonine, Cocaine, Cocaethylene. **COCAINE AND METABOLITES CONFIRMATION by LC-MS/MS:** Benzoylecgonine, Cocaine, Cocaethylene, Anhydroecgonine Methyl Ester, Ecgonine Methyl Ester

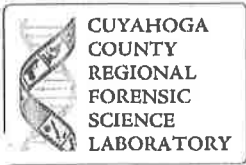
**CANNABINOIDS CONFIRMATION by LC-MS/MS:**  $\Delta$ 9-THC, 11-OH- $\Delta$ 9-THC (marijuana metabolite), 11-nor- $\Delta$ 9-THC-COOH (marijuana metabolite). **CANNABINOIDS CONFIRMATION by GC/MS:** TOTAL 11-nor- $\Delta$ 9-THC-COOH (marijuana metabolite)

**OPIOIDS CONFIRMATION by GC/MS:** Morphine, 6-Acetylmorphine (heroin metabolite), Codeine, Hydrocodone, Dihydrocodeine, Hydromorphone, Oxycodone, Oxycodone

**BENZODIAZEPINES CONFIRMATION by LC-MS/MS:** ( $\pm$ )-Zopiclone, 2-Hydroxyethylflurazepam, 3-Hydroxyflunitrazepam, 4-Hydroxyalprazolam, 7-Aminoclonazepam, 7-Aminoflunitrazepam, Alprazolam, Bromazepam, Clobazam, Clonazepam, Clonazepam, Delorazepam, Deschloroetizolam, Diazepam, Diclazepam, Estazolam, Etizolam, Flualprazolam, Flubromazepam, Flubromazepam, Flunitrazepam, Flunitrazepam, Flurazepam, Lorazepam, Lorazepam, Meclonazepam, Methylclonazepam, Midazolam, N-Desalkylflurazepam, N-Desmethylclobazam, N-Desmethylflunitrazepam, Nitrazepam, Nitrazepam, Nordiazepam, Oxazepam, Phenazepam, Temazepam, Triazolam, Zaleplon, Zolpidem,  $\alpha$ -Hydroxyalprazolam,  $\alpha$ -Hydroxymidazolam and  $\alpha$ -Hydroxytriazolam

**AMINES CONFIRMATION by LC-MS/MS analysis:** ( $\pm$ )-Amphetamine, beta-Phenethylamine, 3,4-Methylenedioxy-N-ethylamphetamine (MDEA), ( $\pm$ )-Methamphetamine, Methylenedioxyamphetamine (MDA), Methylenedioxymethamphetamine (MDMA), Phentermine, Ephedrine/Pseudoephedrine

**FENTANYL and ANALOGUES CONFIRMATION by LC-MS/MS:** N-Methyl norfentanyl, Norfentanyl, Norcarfentanil, AP-238, 2MAP-237, Methoxyacetyl fentanyl, Acetyl fentanyl, Beta-hydroxy fentanyl, Benzyl fentanyl, THF fentanyl, 4-ANPP, p-Methoxyacetyl fentanyl, Acryl fentanyl, Alfentanil, Fentanyl, para-Fluoro acryl fentanyl, para-Fluoro fentanyl, Cyclopropyl fentanyl, 2-Furanyl fentanyl, Fentanyl carbamate, ( $\pm$ )-trans-3-Methylfentanyl, Crotonyl fentanyl, Carfentanil, ( $\pm$ )-cis-3-Methylfentanyl, Butyryl fentanyl, para-Fluoroisobutyryl fentanyl (FIBF), Sufentanil, Phenyl fentanyl, Cyclopentenyl fentanyl, para-Fluorofuranyl fentanyl, Valeryl fentanyl, Isobutyryl fentanyl, Thiophene fentanyl, Isovaleryl fentanyl; plus Metonitazene, Brorphine, Isotonitazene, Protonitazene



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**SENT TO REFERENCE LABS:** Synthetic Cannabinoids, Cathinones, Cyanide, GHB, LSD, Psilocin, Valproic Acid, heavy metals (Antimony, Arsenic, Lead, Barium, Cadmium, Bismuth, Mercury, Selenium), or any other compounds not listed above

**ABBREVIATIONS:** UNS = Specimen unsuitable for testing; QNS = Quantity insufficient for analysis; < = less than; > = greater than; LRL = Lower reporting limit; C.L. = Confidence Level  
**UNITS FOR VOLATILES:** 100 mg/dL = 0.100 g/dL = 0.100 g%. UNITS: 1 mg/L = 1000 µg/L = 1000 ng/mL