

Patient: PAIN HYB U, 2007479

DOB: [REDACTED] Age: 36 Sex: F

Patient Identifiers: [REDACTED]

Visit Number (FIN): [REDACTED]

Client: ARUP Example Report Only  
500 Chipeta Way  
Salt Lake City, UT 84108

Physician: DR T. TEST

ARUP Test Code: 2007479

Collection Date: 08/23/2022

Received in Lab: 08/23/2022

Completion Date: 08/23/2022

## Patient Results - Current \*

Collection Date	8/23/2022
Creatinine, Urine	250.0
Buprenorphine (cutoff 5 ng/mL)	Present
Norbuprenorphine (cutoff 20 ng/mL)	Present
Ethyl Glucuronide (cutoff 500 ng/mL)	Present
Marijuana Metabolite (cutoff 20 ng/mL)	Present
Naloxone (cutoff 100 ng/mL)	Present
ARUP Accession	22-235-100979

\* For details, see report on following page.

**NOTE:** Consecutive test results are displayed on this chart; however, this result set may be incomplete due to variations in the demographic information submitted for prior tests. If the information shown on this chart appears incomplete, please consult the patient's prior charts.



# Drug Profile, Targeted by Tandem Mass Spectrometry and Enzyme Immunoassay, Urine

Patient: PAIN HYB U, 2007479 | Date of Birth: [REDACTED] | Sex: F | Physician: DR T. TEST  
 Patient Identifiers: [REDACTED] | Visit Number (FIN): [REDACTED]

Drug Analyte	Result	Cutoff	Notes
<b>OPIOIDS, IMMUNOASSAY</b>			
Methadone	Not Detected	150 ng/mL	
Tramadol	Not Detected	100 ng/mL	
<b>COCAINE, IMMUNOASSAY</b>			
Benzoylcegonine	Not Detected	150 ng/mL	cocaine metabolite
<b>BARBITURATES, IMMUNOASSAY</b>			
Barbiturates	Not Detected	200 ng/mL	detects amobarbital, butalbital, pentobarbital, phenobarbital, secobarbital, and others
<b>OTHERS (IMMUNOASSAY OR SPECTROPHOTOMETRY)</b>			
Ethyl glucuronide	Present	500 ng/mL	ethanol metabolite
Marijuana metabolite	Present	20 ng/mL	9-carboxy-tetrahydrocannabinol; does not distinguish between prescribed and illicit forms
PCP	Not Detected	25 ng/mL	phencyclidine
Carisoprodol	Not Detected	100 ng/mL	detects carisoprodol and meprobamate
<b>OPIATES, MASS SPEC</b>			
Codeine	Not Detected	40 ng/mL	
Morphine	Not Detected	20 ng/mL	also a metabolite of Codeine; may reflect poppy seed ingestion
6-acetylmorphine	Not Detected	20 ng/mL	heroin metabolite; morphine is expected
<b>OXYCODONE-LIKE, MASS SPEC</b>			
Oxycodone	Not Detected	40 ng/mL	
--Noroxycodone	Not Detected	100 ng/mL	oxycodone metabolite
Oxymorphone	Not Detected	40 ng/mL	eg, Opana; also a metabolite of oxycodone
--Noroxymorphone	Not Detected	100 ng/mL	oxymorphone metabolite; naloxone metabolite (i.e., nornaloxone)
Hydrocodone	Not Detected	40 ng/mL	also a minor metabolite of Codeine; possible impurity of oxycodone
--Norhydrocodone	Not Detected	100 ng/mL	hydrocodone metabolite
Hydromorphone	Not Detected	20 ng/mL	eg, Dilaudid; also a metabolite of hydrocodone, and a minor metabolite of morphine
<b>OPIOIDS, MASS SPEC</b>			
Buprenorphine	Present	5 ng/mL	eg Suboxone, Subutex
--Norbuprenorphine	Present	20 ng/mL	buprenorphine metabolite
Fentanyl	Not Detected	2 ng/mL	
--Norfentanyl	Not Detected	2 ng/mL	fentanyl metabolite
Meperidine metabolite	Not Detected	50 ng/mL	normeperidine



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Drug Analyte	Result	Cutoff	Notes
Tapentadol	Not Detected	100 ng/mL	
--Tapentadol-o-sulfate	Not Detected	200 ng/mL	tapentadol metabolite
<b>OPIOIDS ANTAGONIST, MASS SPEC</b>			
Naloxone	<b>Present</b>	100 ng/mL	eg, Narcan; also coformulated in Suboxone
<b>GABA ANALOGUES, MASS SPEC</b>			
Gabapentin	Not Detected	3,000 ng/mL	
Pregabalin	Not Detected	3,000 ng/mL	eg, Lyrica
<b>AMPHETAMINE-LIKE, MASS SPEC</b>			
Amphetamine	Not Detected	50 ng/mL	eg, Vyvanse; also a metabolite of methamphetamine
Methamphetamine	Not Detected	200 ng/mL	d- and l- isomers are not distinguished by this test; may reflect Vicks inhaler, Desoxyn, Selegiline, or illicit source
MDMA - Ecstasy	Not Detected	200 ng/mL	
MDA	Not Detected	200 ng/mL	also a metabolite of MDMA and MDEA
MDEA - Eve	Not Detected	200 ng/mL	
Phentermine	Not Detected	100 ng/mL	
Methylphenidate	Not Detected	100 ng/mL	eg, Ritalin, Dexmethylphenidate, Focalin, Concerta
<b>BENZODIAZEPINE-LIKE, MASS SPEC</b>			
Alprazolam	Not Detected	40 ng/mL	eg, Xanax
--Alpha-hydroxyalprazolam	Not Detected	20 ng/mL	alprazolam metabolite
Clonazepam	Not Detected	20 ng/mL	eg, Klonopin
--7-aminoclonazepam	Not Detected	40 ng/mL	clonazepam metabolite
Diazepam	Not Detected	50 ng/mL	eg, Valium
Nordiazepam	Not Detected	50 ng/mL	metabolite of chlordiazepoxide (Librium), clorazepate (Tranxene), diazepam, halazepam (Alapryl), prazepam (Centrax) and others
Oxazepam	Not Detected	50 ng/mL	eg, Serax; also metabolite of nordiazepam and temazepam
Temazepam	Not Detected	50 ng/mL	eg, Restoril; also a metabolite of diazepam
Lorazepam	Not Detected	60 ng/mL	eg, Ativan
Midazolam	Not Detected	20 ng/mL	eg, Versed
--Alpha-OH-Midazolam	Not Detected	20 ng/mL	midazolam metabolite
Zolpidem	Not Detected	20 ng/mL	eg, Ambien
--Zolpidem Metabolite	Not Detected	100 ng/mL	zolpidem 4-phenyl carboxylic acid
Reference interval			
Creatinine value (mg/dL)	<b>250.0</b>	20.0 - 400.0 mg/dL	



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## Interpretive Comments

The absence of expected drug(s) and/or drug metabolite(s) may indicate non-compliance, inappropriate timing of specimen collection relative to drug administration, poor drug absorption, diluted/adulterated urine, or limitations of testing. The concentration must be greater than or equal to the cutoff to be reported as present. If specific drug concentrations are required, contact the laboratory within two weeks of specimen collection to request quantification by a second analytical technique. Interpretive questions should be directed to the laboratory.

Results based on immunoassay detection that do not fit clinical expectations should be interpreted with caution. Confirmatory testing by mass spectrometry for immunoassay-based results is available at an additional fee within two weeks of specimen collection.

For medical purposes only; not valid for forensic use.

For further information, consult [aruplab.com/pain](http://aruplab.com/pain).

Please call ARUP Laboratories at 800-522-2787 for Medical Director consultation or assistance with interpretation if needed.

This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the U.S. Food and Drug Administration. This test was performed in a CLIA certified laboratory and is intended for clinical purposes.

## Additional Information

### METHODOLOGIES USED

- Qualitative Enzyme Immunoassay
- Qualitative Liquid Chromatography-Tandem Mass Spectrometry
- Quantitative Spectrophotometry

### ABBREVIATIONS

- MASS SPEC - Mass Spectrometry
- MDA - 3,4-methylenedioxyamphetamine
- MDEA - 3,4-methylenedioxy-N-ethylamphetamine
- MDMA - 3,4-methylenedioxy-N-methylamphetamine

