

[Redacted Patient Information]

Client: [Redacted]  
Physician: [Redacted]

ARUP Test Code: 2009288  
Collection Date: 06/28/2024  
Received in lab: 06/30/2024  
Completion Date: 07/03/2024

## Interpretive Summary

Consistent

All results are CONSISTENT with supplied medications.

## Interpretive Consultation

DRUGS EXPECTED:  
ZOLPIDEM

CONSISTENT with medications provided:  
ZOLPIDEM: based on zolpidem and its metabolite

Interpretation depends on accuracy and completeness of patient medication information submitted by client.

## Patient Results - Current \*

Collection Date	6/28/2024
Creatinine, Urine	135.6
Zolpidem, U	Present
Zolpidem Metabolite, U	Present
ARUP Accession	24-180-131801

\* 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.



## 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](https://aruplab.com/pain).

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.



Patient: [REDACTED]  
ARUP Accession: 24-180-131801

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

Drug Analyte	Result	Cutoff	Notes
<b>OPIOIDS, IMMUNOASSAY</b>			
Methadone	Negative	150 ng/mL	
Tramadol	Negative	100 ng/mL	
<b>COCAINE, IMMUNOASSAY</b>			
Benzoylcegonine	Negative	150 ng/mL	cocaine metabolite
<b>BARBITURATES, IMMUNOASSAY</b>			
Barbiturates	Negative	200 ng/mL	detects amobarbital, butalbital, pentobarbital, phenobarbital, secobarbital, and others
<b>OTHERS (IMMUNOASSAY OR SPECTROPHOTOMETRY)</b>			
Ethyl glucuronide	Negative	500 ng/mL	ethanol metabolite
Marijuana metabolite	Negative	50 ng/mL	9-carboxy-tetrahydrocannabinol; does not distinguish between prescribed and illicit forms
PCP	Negative	25 ng/mL	phencyclidine
Carisoprodol	Negative	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	Not Detected	5 ng/mL	eg Suboxone, Subutex
--Norbuprenorphine	Not Detected	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



Patient: [REDACTED]  
ARUP Accession: 24-180-131801

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

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	Not Detected	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	<b>Present</b>	20 ng/mL	eg, Ambien
--Zolpidem Metabolite	<b>Present</b>	100 ng/mL	zolpidem 4-phenyl carboxylic acid
Reference interval			
Creatinine value (mg/dL)	<b>135.6</b>	20.0 - 400.0 mg/dL	



Patient: [REDACTED]  
ARUP Accession: 24-180-131801

## 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



Patient: [REDACTED]  
ARUP Accession: 24-180-131801