



Alcala Testing & Analysis Services
 3703 Camino Del Rio South 100-A
 San Diego, CA 92108
Phone: (619)450-5870 Fax: (619)450-6023
Director: Dr. David J. Smith, MD

APPROVAL REQUIRED

Patient:	Test, Patient		Acc #:	47735
Patient #:	1-42950	Birth:	3/16/1960	
Doctor:	Doctor, Test	Age:	57 years	Collection Date: 9/12/2017 1:22 PM
		Gender:	Male	Received in Lab: 9/12/2017 1:22 PM CT

Drug Adherence Assessment Report

Prescribed Medications: METHADONE, OXYCODONE, SOMA, SUBOXONE, XANAX

CONSISTENT RESULTS - REPORTED MEDICATION DETECTED (PARENT DRUG AND/OR METABOLITE)

REPORTED PRESCRIPTION	ANTICIPATED POSITIVE(S)	TEST OUTCOME	DETECTION WINDOW
OXYCODONE	Oxycodone	POSITIVE	1-4 days
OXYCODONE	Noroxycodone	POSITIVE	1-4 days
OXYCODONE	Oxymorphone	POSITIVE	1-4 days
OXYCODONE	Oxymorphone-3-B-glucuronide	POSITIVE	1-4 days
OXYCODONE	Noroxymorphone-3-B-glucuronide	POSITIVE	1-4 days
SUBOXONE	Buprenorphine	POSITIVE	1-10 days
SUBOXONE	Buprenorphine-3-B-glucuronide	POSITIVE	1-4 days
SUBOXONE	Norbuprenorphine	POSITIVE	1-10 days
SUBOXONE	Norbuprenorphine-glucuronide	NEGATIVE	1-4 days

INCONSISTENT RESULTS - REPORTED MEDICATION NOT DETECTED (NEITHER PARENT DRUG NOR METABOLITE)

REPORTED PRESCRIPTION	ANTICIPATED POSITIVE(S)	TEST OUTCOME	DETECTION WINDOW
METHADONE	Methadone	NEGATIVE	3-11 days
METHADONE	EDDP	NEGATIVE	3-11 days
SOMA	Carisoprodol	NEGATIVE	1-5 days
SOMA	Meprobamate	NEGATIVE	2-4 days
XANAX	Alprazolam	NEGATIVE	1-5 days
XANAX	Alphahydroxyalprazolam	NEGATIVE	1-5 days

INCONSISTENT RESULTS - ANALYTE DETECTED BUT NO CORRESPONDING PRESCRIPTION REPORTED

DETECTED ANALYTE	ILLICIT	MEASURED RESULT	CUTOFF	TEST OUTCOME	DETECTION WINDOW
Acetaminophen	No	>5000	<10	POSITIVE	2-3 days
Naloxone	No	>5000	<50	POSITIVE	10-15 hours
Acetyl-Fentanyl	Yes	15	<5	POSITIVE	1 day
Carfentanil	Yes	30	<5	POSITIVE	1 day
6-MAM	Yes	3556	<10	POSITIVE	5-7 days
THC (Tetrahydrocannabinol)	Yes	4251	<125	POSITIVE	Single Use: 2-7 days
AB-FUBINACA	Yes	1256	<50	POSITIVE	72 hours
MMB-CHMICA	Yes	1253	<5	POSITIVE	72 hours
Didesmethyl-U-47700	Yes	500	<5	POSITIVE	1-3 days
N-Desmethyl-U-47700	Yes	650	<5	POSITIVE	1-3 days
Ethyl Sulfate (Ethanol)	No	2500	<500	POSITIVE	1-2 days
Ethyl Glucuronide (Ethanol)	No	2500	<500	POSITIVE	3-4 days



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APPROVAL REQUIRED

Patient: Test, Patient
Patient #: 1-42950
Doctor: Doctor, Test

Birth: 3/16/1960
Age: 57 years
Gender: Male

Acc #: 47735
Collection Date: 9/12/2017 1:22 PM
Received in Lab: 9/12/2017 1:22 PM CT

SPECIMEN VALIDITY TESTING

TEST	TEST OUTCOME	MEASURED RESULT	REFERENCE RANGE
Glucose	Normal	Negative	<20 (Max >500)
Bilirubin	Normal	Negative	<1.8 (Max >4)
Ketone	Normal	Negative	<3 (Max >80)
Leukocytes	Normal	Negative	<15 (Max >500)
Blood	Normal	Negative	<0.02 (Max >1)
Protein	Normal	Negative	<20 (Max >500)
Urobilinogen	Normal	Negative	<1.6 (Max >4)
Nitrite	Normal	Negative	<0.04 Negative
pH	Normal	6	5 - 9
Specific Gravity	Normal	1.025	1.002 - 1.06
Color	Normal	Clear	Yellow/Amber/RGB
Clarity	Normal	Yellow	Clear/Cloudy/Turbid
Ascorbic Acid	Abnormal	40	<17 (Max >40)
Norbup-Bup-Ratio	Abnormal	<0.02	>.02

**ADDITIONAL MEDICATIONS REPORTED
BUT NOT TESTED FOR IN THIS REPORT**



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		Gender:	Male	Received in Lab: 9/12/2017 1:22 PM CT

Test Name	Outcome	Measured Result	Cutoff	Units	Illicit?	Status
Urinalysis (UA)						Run by: CT on 9/12/2017 6:38 PM
Glucose	Normal	Negative	<20 (Max >500)	mg/dL		
Bilirubin	Normal	Negative	<1.8 (Max >4)	mg/dL		
Ketone	Normal	Negative	<3 (Max >80)	mg/dL		
Leukocytes	Normal	Negative	<15 (Max >500)	WBCs/uL		
Blood	Normal	Negative	<0.02 (Max >1)	mg/dL		
Protein	Normal	Negative	<20 (Max >500)	mg/dL		
Urobilinogen	Normal	Negative	<1.6 (Max >4)	mg/dL		
Nitrite	Normal	Negative	<0.04 Negative	mg/dL		
pH	Normal	6	5 - 9			
Specific Gravity	Normal	1.025	1.002 - 1.06	kg/m3		
Color	Normal	Clear	Yellow/Amber/RGB			
Clarity	Normal	Yellow	Clear/Cloudy/Turbid			
Ascorbic Acid	Abnormal	40	<17 (Max >40)	mg/dL		
1.NARCOTIC ANALGESICS-OPIODS/OPIATES						Run by: CT on 9/12/2017 6:38 PM
Acetaminophen	Positive	>5000	<10	ng/mL	No	Inconsistent Result
Buprenorphine	Positive	>5000	<5	ng/mL	No	Consistent Result
Buprenorphine-3-B-glu curonide	Positive	8500	<10	ng/mL	No	Consistent Result
Norbuprenorphine	Positive	12	<10	ng/mL	No	Consistent Result
Norbuprenorphine-glu curonide	Negative		<50	ng/mL	No	Consistent Result
Butorphanol	Negative		<10	ng/mL	No	Consistent Result
Codeine	Negative		<25	ng/mL	No	Consistent Result
Codeine-6-B-glucuroni de	Negative		<5	ng/mL	No	Consistent Result
NorCodeine	Negative		<5	ng/mL	No	Consistent Result
Fentanyl	Negative		<10	ng/mL	No	Consistent Result
Norfentanyl	Negative		<10	ng/mL	No	Consistent Result
Hydrocodone	Negative		<10	ng/mL	No	Consistent Result
Norhydrocodone	Negative		<25	ng/mL	No	Consistent Result
Hydromorphone	Negative		<10	ng/mL	No	Consistent Result
Hydromorphone-3-B-gl ucuronide	Negative		<10	ng/mL	No	Consistent Result
Ketamine	Negative		<25	ng/mL	No	Consistent Result
Norketamine	Negative		<25	ng/mL	No	Consistent Result
Levorphanol	Negative		<10	ng/mL	No	Consistent Result
Meperidine	Negative		<10	ng/mL	No	Consistent Result
Methadone	Negative		<10	ng/mL	No	Inconsistent Result
EDDP	Negative		<10	ng/mL	No	Inconsistent Result
Mitragynine (Kratom)	Negative		<25	ng/mL	No	Consistent Result
7-Hydroxy-Mitragynine (Kratom)	Negative		<10	ng/mL	No	Consistent Result
Morphine	Negative		<10	ng/mL	No	Consistent Result
Morphine-6-B-D-glucur onide	Negative		<10	ng/mL	No	Consistent Result
Oxycodone	Positive	>5000	<10	ng/mL	No	Consistent Result

Originally Reported On: 2/15/2017 5:13 PM

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Accession: 47735 Patient ID: 1-42950

Lab Results For: Patient Test

STAT[S] Corrected [C] Added [A]



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Test Name	Outcome	Measured Result	Cutoff	Units	Illicit?	Status
1.NARCOTIC ANALGESICS-OPIOIDS/OPIATES						<i>Run by: CT on 9/12/2017 6:38 PM</i>
Noroxycodone	Positive	>5000	<25	ng/mL	No	Consistent Result
Oxymorphone	Positive	350	<10	ng/mL	No	Consistent Result
Oxymorphone-3-B-glucuronide	Positive	250	<50	ng/mL	No	Consistent Result
Noroxymorphone-3-B-glucuronide	Positive	250	<125	ng/mL	No	Consistent Result
Propoxyphene	Negative		<10	ng/mL	No	Consistent Result
Norpropoxyphene	Negative		<10	ng/mL	No	Consistent Result
Tapentadol	Negative		<10	ng/ml	No	Consistent Result
Tramadol	Negative		<25	ng/mL	No	Consistent Result
O-Desmethyl-Tramadol	Negative		<10	ng/mL	No	Consistent Result
N-Desmethyl-Tramadol	Negative		<25	ng/mL	No	Consistent Result
Norbup-Bup-Ratio	Abnormal	<0.02	>.02	Ratio		
2.BENZODIAZEPINES						<i>Run by: CT on 9/12/2017 6:38 PM</i>
Alprazolam	Negative		<10	ng/mL	No	Inconsistent Result
Alphahydroxyalprazolam	Negative		<10	ng/mL	No	Inconsistent Result
Buspirone	Negative		<10	ng/mL	No	Consistent Result
Clonazepam	Negative		<25	ng/mL	No	Consistent Result
7-Aminoclonazepam	Negative		<25	ng/mL	No	Consistent Result
Chlordiazepoxide	Negative		<25	ng/mL	No	Consistent Result
Norchlordiazepoxide	Negative		<25	ng/mL	No	Consistent Result
Clobazam	Negative		<25	ng/mL	No	Consistent Result
Diazepam	Negative		<10	ng/mL	No	Consistent Result
Nordiazepam	Negative		<10	ng/mL	No	Consistent Result
Estazolam	Negative		<25	ng/mL	No	Consistent Result
Flunitrazepam	Negative		<25	ng/mL	No	Consistent Result
Desmethyflunitrazepam	Negative		<25	ng/mL	No	Consistent Result
N-Desmethyl-Flunitrazepam	Negative		<25	ng/mL	No	Consistent Result
Lorazepam	Negative		<10	ng/mL	No	Consistent Result
Oxazepam	Negative		<10	ng/mL	No	Consistent Result
Prazepam	Negative		<25	ng/mL	No	Consistent Result
Temazepam	Negative		<10	ng/mL	No	Consistent Result
Triazolam	Negative		<25	ng/mL	No	Consistent Result
Alpha-Hydroxytriazolam	Negative		<25	ng/mL	No	Consistent Result
3.ANTIPSYCHOTICS						<i>Run by: CT on 9/12/2017 6:38 PM</i>
Aripiprazole	Negative		<25	ng/mL	No	Consistent Result
Chlorpromazine	Negative		<10	ng/mL	No	Consistent Result
Clozapine	Negative		<10	ng/mL	No	Consistent Result
Clozapine_N_oxide	Negative		<10	ng/mL	No	Consistent Result
Fluphenazine	Negative		<25	ng/mL	No	Consistent Result
Haloperidol	Negative		<25	ng/mL	No	Consistent Result
Olanzapine	Negative		<25	ng/mL	No	Consistent Result

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3.ANTIPSYCHOTICS						
Quetiapine	Negative	<10	ng/mL	No		Run by: CT on 9/12/2017 6:38 PM Consistent Result
Risperidone	Negative	<25	ng/mL	No		Consistent Result
Hydroxyrisperidone	Negative	<10	ng/mL	No		Consistent Result
Thioridazine	Negative	<25	ng/mL	No		Consistent Result
Ziprasidone	Negative	<25	ng/mL	No		Consistent Result
4.ANTIDEPRESSANTS						
Amitriptyline	Negative	<10	ng/mL	No		Run by: CT on 9/12/2017 6:38 PM Consistent Result
Nortriptyline	Negative	<25	ng/mL	No		Consistent Result
Bupropion	Negative	<10	ng/mL	No		Consistent Result
Citalopram	Negative	<10	ng/mL	No		Consistent Result
Clomipramine	Negative	<25	ng/mL	No		Consistent Result
N-Desmethyl-Clomipramine	Negative	<25	ng/mL	No		Consistent Result
Desipramine	Negative	<25	ng/mL	No		Consistent Result
Doxepin	Negative	<10	ng/mL	No		Consistent Result
Duloxetine	Negative	<10	ng/mL	No		Consistent Result
Fluvoxamine	Negative	<25	ng/mL	No		Consistent Result
Fluoxetine	Negative	<10	ng/mL	No		Consistent Result
Imipramine	Negative	<25	ng/mL	No		Consistent Result
D-L-Kavain	Negative	<10	ng/mL	No		Consistent Result
Dihydrokavain	Negative	<10	ng/mL	No		Consistent Result
Mirtazapine	Negative	<10	ng/mL	No		Consistent Result
Methysticin	Negative	<10	ng/mL	No		Consistent Result
Dihydromethysticin	Negative	<10	ng/mL	No		Consistent Result
Paroxetine	Negative	<10	ng/mL	No		Consistent Result
Sertraline	Negative	<10	ng/mL	No		Consistent Result
Trazodone	Negative	<10	ng/mL	No		Consistent Result
Venlafaxine	Negative	<25	ng/mL	No		Consistent Result
O-Desmethyl-Venlafaxine	Negative	<10	ng/mL	No		Consistent Result
Yangonin	Negative	<10	ng/mL	No		Consistent Result
Desmethoxyyangonin	Negative	<10	ng/mL	No		Consistent Result
5.DEPRESSANTS						
Desalkylflurazepam	Negative	<25	ng/mL	No		Run by: CT on 9/12/2017 6:38 PM Consistent Result
Flurazepam	Negative	<25	ng/mL	No		Consistent Result
Midazolam	Negative	<25	ng/mL	No		Consistent Result
Alpha-Hydroxymidazolam	Negative	<10	ng/mL	No		Consistent Result
Zaleplon	Negative	<25	ng/mL	No		Consistent Result
Zolpidem	Negative	<10	ng/mL	No		Consistent Result
Zopiclone-N-Oxide	Negative	<50	ng/mL	No		Consistent Result
6.ANTICONSULSANTS						
Carbamazepine	Negative	<10	ng/mL	No		Run by: CT on 9/12/2017 6:38 PM Consistent Result
Gabapentin	Negative	<10	ng/mL	No		Consistent Result
Lamotrigine	Negative	<10	ng/mL	No		Consistent Result



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6.ANTICONVULSANTS						
Levetiracetam	Negative		<10	ng/mL	No	Run by: CT on 9/12/2017 6:38 PM Consistent Result
Oxcarbazepine	Negative		<10	ng/mL	No	Consistent Result
10-11-Dihydro-10-Hydr oxycarbamazepine	Negative		<10	ng/mL	No	Consistent Result
Pregabalin	Negative		<10	ng/mL	No	Consistent Result
Tiagabine	Negative		<10	ng/mL	No	Consistent Result
Valproic Acid	Negative		<10	ng/mL	No	Consistent Result
Zonisamide	Negative		<10	ng/mL	No	Consistent Result
7.MUSCLE RELAXANTS						
Baclofen	Negative		<25	ng/mL	No	Run by: CT on 9/12/2017 6:38 PM Consistent Result
Carisoprodol	Negative		<10	ng/mL	No	Inconsistent Result
Meprobamate	Negative		<10	ng/mL	No	Inconsistent Result
Cyclobenzaprine	Negative		<10	ng/mL	No	Consistent Result
Methocarbamol	Negative		<10	ng/mL	No	Consistent Result
8.STIMULANT						
Caffeine	Negative		<10	ng/mL	No	Run by: CT on 9/12/2017 6:38 PM Consistent Result
Ephedrine	Negative		<25	ng/mL	No	Consistent Result
Lisdexamfetamine	Negative		<10	ng/mL	No	Consistent Result
Methylphenidate	Negative		<25	ng/mL	No	Consistent Result
Ritalinic Acid	Negative		<25	ng/mL	No	Consistent Result
9.DECONGESTANTS						
Dextromethorphan	Negative		<25	ng/mL	No	Run by: CT on 9/12/2017 6:38 PM Consistent Result
Pseudoephedrine	Negative		<25	ng/mL	No	Consistent Result
10.APPETITE STIMULANTS						
Marinol	Negative		<25	ng/mL	No	Run by: CT on 9/12/2017 6:38 PM Consistent Result
Phentermine	Negative		<25	ng/mL	No	Consistent Result
11.ANTIDOTES						
Naloxone	Positive	>5000	<50	ng/mL	No	Run by: CT on 9/12/2017 6:38 PM Inconsistent Result
Naltrexone	Negative		<10	ng/mL	No	Consistent Result
12.ILLCITS						
Acetyl-Fentanyl	Positive	15	<5	ng/mL	Yes	Run by: CT on 9/12/2017 6:38 PM Inconsistent Result
Alpha-PVP	Negative		<25	ng/mL	Yes	Consistent Result
Amphetamine	Negative		<25	ng/mL	No	Consistent Result
Carfentanil	Positive	30	<5	ng/mL	Yes	Inconsistent Result
Cocaine	Negative		<10	ng/mL	Yes	Consistent Result
Benzoyllecgonine	Negative		<10	ng/mL	Yes	Consistent Result
DMT	Negative		<10	ng/mL	Yes	Consistent Result
5-MeO-DMT	Negative		<10	ng/mL	Yes	Consistent Result
MDA	Negative		<10	ng/mL	Yes	Consistent Result
MDEA	Negative		<10	ng/mL	Yes	Consistent Result
MDMA	Negative		<25	ng/mL	Yes	Consistent Result
MDPV	Negative		<25	ng/mL	Yes	Consistent Result
Mephedrone	Negative		<25	ng/mL	Yes	Consistent Result
Methamphetamine	Negative		<10	ng/mL	Yes	Consistent Result
6-MAM	Positive	3556	<10	ng/mL	Yes	Inconsistent Result



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Test Name	Outcome	Measured Result	Cutoff	Units	Illicit?	Status
12. ILLICITS						
Methylone	Negative		<25	ng/mL	Yes	Run by: CT on 9/12/2017 6:38 PM Consistent Result
PCP	Negative		<10	ng/mL	Yes	Consistent Result
THC (Tetrahydrocannabinol)	Positive	4251	<125	ng/mL	Yes	Inconsistent Result
5-Fluoro-NPB-22	Negative		<10	ng/mL	Yes	Consistent Result
AB-FUBINACA	Positive	1256	<50	ng/ml	Yes	Inconsistent Result
AM2201 (Spice Cannabinoid)	Negative		<25	ng/mL	Yes	Consistent Result
FDU-PB-22	Negative		<10	ng/mL	Yes	Consistent Result
HU-210 (Spice Cannabinoid)	Negative		<25	ng/mL	Yes	Consistent Result
JWH-019 (Spice Cannabinoid)	Negative		<25	ng/mL	Yes	Consistent Result
JWH-073 4-Hydroxybutyl (Spice Cannabinoid)	Negative		<10	ng/mL	Yes	Consistent Result
JWH-081 (Spice Cannabinoid)	Negative		<25	ng/mL	Yes	Consistent Result
JWH-122 (Spice Cannabinoid)	Negative		<25	ng/mL	Yes	Consistent Result
JWH-18-5-pentanoic acid (Spice Cannabinoid)	Negative		<10	ng/mL	Yes	Consistent Result
JWH-18-5-pentanyl (Spice Cannabinoid)	Negative		<10	ng/mL	Yes	Consistent Result
JWH-250-5OH-pentany l (Spice Cannabinoid)	Negative		<10	ng/mL	Yes	Consistent Result
MMB-CHMICA	Positive	1253	<5	ng/mL	Yes	Inconsistent Result
Didesmethyl-U-47700	Positive	500	<5	ng/mL	Yes	Inconsistent Result
N-Desmethyl-U-47700	Positive	650	<5	ng/mL	Yes	Inconsistent Result
13. BARBITURATES						
Amobarbital	Negative		<25	ng/mL	No	Run by: CT on 9/12/2017 6:38 PM Consistent Result
Butalbital	Negative		<25	ng/mL	No	Consistent Result
Butobarbital	Negative		<25	ng/mL	No	Consistent Result
Pentobarbital	Negative		<25	ng/mL	No	Consistent Result
Phenobarbital	Negative		<25	ng/mL	No	Consistent Result
Secobarbital	Negative		<25	ng/mL	No	Consistent Result
14. DIRECT BIOMARKERS						
(-)-Cotinine	Negative		<10	ng/mL	No	Run by: CT on 9/12/2017 6:38 PM Consistent Result
Ethyl Sulfate (Ethanol)	Positive	2500	<500	ng/mL	No	Inconsistent Result
Ethyl Glucuronide (Ethanol)	Positive	2500	<500	ng/mL	No	Inconsistent Result



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Morphine is a commonly detected metabolite among patients taking codeine.
An active molecule of Opana, Oxymorphone is a commonly detected metabolite among patients taking Oxycodone.
Opana (Oxymorphone) will not metabolize to Noroxycodone or Oxycodone.
Hydromorphone is a commonly detected metabolite among patients taking Hydrocodone and Morphine.
Oxazepam is commonly detected metabolite among patients taking Diazepam, Nor-Diazepam or Temazepam.
Temazepam and Nor-Diazepam are commonly detected metabolites among patients taking Diazepam.
Alprazolam, Alpha-OH-Alprazolam, Clonazepam, and 7-amino-Clonazepam are not detected in patients taking Diazepam, Nor-diazepam, Lorazepam, Oxazepam, and Temazepam.
Meprobamate is a commonly detected metabolite among patients taking Carisoprodol and its presence is consistent with the use of Carisoprodol.
An active (drug) or metabolite may be listed as a Negative Outcome, however, if either the active or any metabolite(s) are present (Positive), then the result is listed as Consistent for that reported prescribed medication.
Metabolites can remain longer in the body than the parent drug. Sometimes only the metabolite may be detected in the urine and not the parent drug.

In case of patients consuming HYDROCODONE-containing medications: Norhydrocodone is the major metabolite of Hydrocodone indicating presence of Hydrocodone in the urine. While Hydrocodone can also be metabolized to Hydromorphone, identification of just Hydromorphone by itself is not a confirmation of Hydrocodone being present, since recent studies suggest that urine specimens of patients taking Hydrocodone always show presence of Hydrocodone or Norhydrocodone in combination with Hydromorphone. FOR PATIENT RESULTS INDICATING JUST THE PRESENCE OF HYDROMORPHONE: THIS MAY BE DERIVED FROM MORPHINE-CONTAINING PRESCRIPTION DRUGS OR HYDROMORPHONE-ONLY PRESCRIPTIONS (FOR EXAMPLE, DILAUDID). Further reading: Valtier, S. and Bebar, V.S. (2012) Excretion profile of hydrocodone, hydromorphone and norhydrocodone in urine following single dose administration of hydrocodone to healthy volunteers. J. Anal. Toxicol., 36, 507–14. and Barakat, N.H., Atayee, R.S., Best, B.M. and Ma, J.D. (2014) Observations of Urinary Hydrocodone and Metabolite Distributions in Pain Patients. J. Anal. Toxicol., 38, 129–134.)

Notes: *EtG/EtS, metabolites of Alcohol, were observed. A high positive value for EtG/EtS (>1,000 ng/mL) may indicate: heavy drinking the same day or within the past 1 to 2 days, or light drinking the same day. Any concentration up to 1,000 ng/mL may indicate: previous heavy drinking in the past 1 to 3 days, recent light drinking (<1 day), or recent intense extraneous exposure (<1 day).*

The Norbuprenorphine/Buprenorphine ratio for this specimen was determined as <0.02 and Naloxone is detected >100 ng/mL (a Norbuprenorphine/Buprenorphine ratio <0.02 and high Naloxone concentrations indicate adulteration: a common method of adulteration is to attempt to dissolve a Suboxone tablet directly into a urine sample, and submit the resulting solution as a legitimate urine specimen (as described in: Mindy J. Hull, Michael F. Bierer, David A. Griggs, William H. Long, Andrea L. Nixon, J. G. F. (2008). Urinary Buprenorphine Concentrations in Patients Treated with Suboxone® as Determined by Liquid Chromatography - Mass Spectrometry and CEDIA Immunoassay. Journal of Analytic Toxicology, 32 (September), 516–521.).

6-MAM, the major metabolite of Heroin, was observed.

Acetyl-Fentanyl and Carfentanil, illicit Fentanyl analogs were observed.

Metabolites of U-47700 (N-Desmethyl-U-47700 and Nor-47700/Di-Desmethyl-U-47700), a Schedule I synthetic opioid, were observed.

THC was observed.