



**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 #: 47020  
 Patient #: 1-42741  
 Doctor: Doctor, Test  
 Collection Date: 2/1/2018 1:18 PM  
 Received in Lab: 2/1/2018 1:18 PM CT

**Drug Adherence Assessment Report**

Prescribed Medications: FENTANYL, OXYCODONE

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

REPORTED PRESCRIPTION	ANTICIPATED POSITIVE(S)	TEST OUTCOME	DETECTION WINDOW
FENTANYL	Fentanyl	POSITIVE	1 day
FENTANYL	Norfentanyl	POSITIVE	1 day
OXYCODONE	Oxycodone	POSITIVE	1-4 days
OXYCODONE	Noroxycodone	POSITIVE	1-4 days
OXYCODONE	Oxymorphone	POSITIVE	1-4 days

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

REPORTED PRESCRIPTION	ANTICIPATED POSITIVE(S)	TEST OUTCOME	DETECTION WINDOW
N/A	N/A	N/A	N/A

**INCONSISTENT RESULTS - ANALYTE DETECTED BUT NO CORRESPONDING PRESCRIPTION REPORTED**

DETECTED ANALYTE	ILLICIT	MEASURED RESULT	CUTOFF	TEST OUTCOME	DETECTION WINDOW
Buprenorphine	No	250	<5	POSITIVE	1-10 days
Norbuprenorphine	No	500	<5	POSITIVE	1-10 days

**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	1.05	1.002 - 1.06
Color	Normal	Yellow	Yellow/Amber/RGB
Clarity	Normal	Clear	Clear/Cloudy/Turbid
Ascorbic Acid	Normal	Negative	<17 (Max >40)
Norbup-Bup-Ratio	Normal	>0.02	>.02

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



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Test Name	Outcome	Measured Result	Cutoff	Units	Illicit?	Status
<b>Urinalysis (UA)</b>						<i>Run by: CT on 11/8/2018 2:57 PM</i>
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	1.05	1.002 - 1.06	kg/m3		
Color	Normal	Yellow	Yellow/Amber/RGB			
Clarity	Normal	Clear	Clear/Cloudy/Turbid			
Ascorbic Acid	Normal	Negative	<17 (Max >40)	mg/dL		
<b>Toxicology QUICKSTUDY</b>						<i>Run by: CT on 11/8/2018 2:57 PM</i>
Acetaminophen	Negative		<10	ng/mL	No	Consistent Result
Alprazolam	Negative		<5	ng/mL	No	Consistent Result
Alphahydroxyalprazolam	Negative		<5	ng/mL	No	Consistent Result
Amitriptyline	Negative		<10	ng/mL	No	Consistent Result
Amphetamine	Negative		<10	ng/mL	No	Consistent Result
Aripiprazole	Negative		<5	ng/mL	No	Consistent Result
Buprenorphine	Positive	250	<5	ng/mL	No	<b>Inconsistent Result</b>
Norbuprenorphine	Positive	500	<5	ng/mL	No	<b>Inconsistent Result</b>
Bupropion	Negative		<5	ng/mL	No	Consistent Result
Caffeine	Negative		<5	ng/mL	No	Consistent Result
Carbamazepine	Negative		<5	ng/mL	No	Consistent Result
Carisoprodol	Negative		<10	ng/mL	No	Consistent Result
Meprobamate	Negative		<50	ng/mL	No	Consistent Result
Chlorpromazine	Negative		<5	ng/mL	No	Consistent Result
Citalopram	Negative		<5	ng/mL	No	Consistent Result
Clozapine	Negative		<10	ng/mL	No	Consistent Result
Clonazepam	Negative		<5	ng/mL	No	Consistent Result
7-Aminoclonazepam	Negative		<10	ng/mL	No	Consistent Result
Clozapine_N_oxide	Negative		<5	ng/mL	No	Consistent Result
Codeine	Negative		<5	ng/mL	No	Consistent Result
Cocaine	Negative		<5	ng/mL	Yes	Consistent Result
Benzoylcegonine	Negative		<10	ng/mL	Yes	Consistent Result
Cyclobenzaprine	Negative		<10	ng/mL	No	Consistent Result
Diazepam	Negative		<5	ng/mL	No	Consistent Result
Nordiazepam	Negative		<5	ng/mL	No	Consistent Result
Doxepin	Negative		<5	ng/mL	No	Consistent Result
Duloxetine	Negative		<5	ng/mL	No	Consistent Result
Fentanyl	Positive	45	<5	ng/mL	No	Consistent Result
Norfentanyl	Positive	75	<5	ng/mL	No	Consistent Result
Fluoxetine	Negative		<5	ng/mL	No	Consistent Result

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Printed: 11/8/2018 2:59 PM

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Lab Results For: Patient Test

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



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Test Name	Outcome	Measured Result	Cutoff	Units	Illicit?	Status
<b>Toxicology QUICKSTUDY</b>						<i>Run by: CT on 11/8/2018 2:57 PM</i>
Fluphenazine	Negative		<5	ng/mL	No	Consistent Result
Gabapentin	Negative		<10	ng/mL	No	Consistent Result
Hydrocodone	Negative		<5	ng/mL	No	Consistent Result
Norhydrocodone	Negative		<5	ng/mL	No	Consistent Result
Hydromorphone	Negative		<5	ng/mL	No	Consistent Result
Lamotrigine	Negative		<10	ng/mL	No	Consistent Result
Levetiracetam	Negative		<10	ng/mL	No	Consistent Result
Levorphanol	Negative		<5	ng/mL	No	Consistent Result
Lorazepam	Negative		<5	ng/mL	No	Consistent Result
MDA	Negative		<5	ng/mL	Yes	Consistent Result
MDEA	Negative		<5	ng/mL	Yes	Consistent Result
MDMA	Negative		<5	ng/mL	Yes	Consistent Result
Meperidine	Negative		<5	ng/mL	No	Consistent Result
Mephedrone	Negative		<5	ng/mL	Yes	Consistent Result
Methadone	Negative		<5	ng/mL	No	Consistent Result
EDDP	Negative		<10	ng/mL	No	Consistent Result
Methamphetamine	Negative		<5	ng/mL	Yes	Consistent Result
Mirtazapine	Negative		<5	ng/mL	No	Consistent Result
Morphine	Negative		<5	ng/mL	No	Consistent Result
6-MAM	Negative		<5	ng/mL	Yes	Consistent Result
Methylphenidate	Negative		<5	ng/mL	No	Consistent Result
Ritalinic Acid	Negative		<5	ng/mL	No	Consistent Result
Naloxone	Negative		<5	ng/mL	No	Consistent Result
Oxazepam	Negative		<5	ng/mL	No	Consistent Result
Oxcarbazepine	Negative		<5	ng/mL	No	Consistent Result
10-11-Dihydro-10-Hydr oxycarbamazepine	Negative		<10	ng/mL	No	Consistent Result
Oxycodone	Positive	15	<5	ng/mL	No	Consistent Result
Noroxycodone	Positive	55	<5	ng/mL	No	Consistent Result
Oxymorphone	Positive	7	<5	ng/mL	No	Consistent Result
Paroxetine	Negative		<5	ng/mL	No	Consistent Result
Pregabalin	Negative		<5	ng/mL	No	Consistent Result
Propoxyphene	Negative		<5	ng/mL	No	Consistent Result
Norpropoxyphene	Negative		<5	ng/mL	No	Consistent Result
Quetiapine	Negative		<5	ng/mL	No	Consistent Result
Sertraline	Negative		<5	ng/mL	No	Consistent Result
Tapentadol	Negative		<5	ng/ml	No	Consistent Result
Temazepam	Negative		<5	ng/mL	No	Consistent Result
THC (Tetrahydrocannabinol)	Negative		<5	ng/mL	Yes	Consistent Result
AM2201 (Spice Cannabinoid)	Negative		<10	ng/mL	Yes	Consistent Result
HU-210 (Spice Cannabinoid)	Negative		<50	ng/mL	Yes	Consistent Result
JWH-019 (Spice)	Negative		<125	ng/mL	Yes	Consistent Result



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Test Name	Outcome	Measured Result	Cutoff	Units	Illicit?	Status
<b>Toxicology_QUICKSTUDY</b>						<i>Run by: CT on 11/8/2018 2:57 PM</i>
Cannabinoid) 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
Tiagabine	Negative		<10	ng/mL	No	Consistent Result
Thioridazine	Negative		<5	ng/mL	No	Consistent Result
Tramadol	Negative		<5	ng/mL	No	Consistent Result
O-Desmethyl-Tramadol	Negative		<5	ng/mL	No	Consistent Result
N-Desmethyl-Tramadol	Negative		<10	ng/mL	No	Consistent Result
Trazodone	Negative		<5	ng/mL	No	Consistent Result
Venlafaxine	Negative		<5	ng/mL	No	Consistent Result
O-Desmethyl-Venlafaxi ne	Negative		<5	ng/mL	No	Consistent Result
Ziprasidone	Negative		<5	ng/mL	No	Consistent Result
Zolpidem	Negative		<5	ng/mL	No	Consistent Result
Zonisamide	Negative		<10	ng/mL	No	Consistent Result
Zopiclone-N-Oxide	Negative		<10	ng/mL	No	Consistent Result
Norbup-Bup-Ratio	Normal	>0.02	>.02	Ratio		



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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 Bebart, 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:**

Reviewed By: \_\_\_\_\_

Date: \_\_\_\_\_