

3703 Camino del Rio South 100-A  
 San Diego, CA, 92108  
 619-450-5870 - Phone  
 619-450-6023 - Fax

CLIA# 05D2027247 - Director: David J. Smith, MD

<b>Patient :</b>		<b>Acc #:</b>	AL-URI-10490
Patient #:	Birth:		
Doctor:	Age: 68 years	Collection Date:	03/19/2019 11:34
	Gender: Female	Received in Lab:	03/20/2019 11:34

**Drug Adherence Assessment Report**

**Prescribed Medications:** *ESZOPICLONE (LUNESTA), TAPENTADOL (NUCYNTA)*

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

REPORTED PRESCRIPTION	FLAG	ANTICIPATED POSITIVE(S)	TEST OUTCOME	DETECTION WINDOW
ESZOPICLONE (LUNESTA)	⊗	Zopiclone-N-Oxide	Positive	1-4 days (Plasma Half-Life: 3.5-5 hrs)
ESZOPICLONE (LUNESTA)	⊗	Eszopiclone	Positive	Unknown (Plasma Half-Life: 6 hrs)
TAPENTADOL (NUCYNTA)	⊗	Tapentadol	Positive	1-2 days (Plasma Half-Life: 4 hrs)

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

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

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

REPORTED PRESCRIPTION	FLAG	ILLICIT	MEASURED RESULT	CUTOFF	TEST OUTCOME	DETECTION WINDOW
Diphenhydramine	✓	No	>5000.00	0.50	Positive	Unknown (Plasma Half-Life: 8-10 hrs)
Ibuprofen	⚠	No	>5000.00	50.00	Positive	Unknown (Plasma Half-Life: 3-4 hrs)
Oxipurinol	✓	No	589.00	50.00	Positive	Unknown (Plasma Half-Life: 1-2 hrs)
Metoprolol	⚠	No	>5000.00	1.00	Positive	Unknown (Plasma Half-Life: 3-4 hrs)
Alpha-hydroxymetoprolol	⚠	No	>5000.00	1.00	Positive	Unknown (Plasma Half-Life: 3-4 hrs)
Dextromethorphan	✓	No	549.00	5.00	Positive	1-2 days (Plasma Half-Life: 2-4 hrs)
Pseudoephedrine	✓	No	>5000.00	5.00	Positive	1-5 days (Plasma Half-Life: 4-8 hrs)
Ropinirole	✓	No	145.00	0.50	Positive	Unknown (Plasma Half-Life: 5-6 hrs)
Metformin	✓	No	204.00	1.00	Positive	Unknown (Plasma Half-Life: 6-7 hrs)
Biotin	✓	No	125.00	1.00	Positive	1-3 days (Plasma Half-Life: 1 hr)
Famotidine	✓	No	37.00	5.00	Positive	Unknown (Plasma Half-Life: 1-3 hrs)
Caffeine	✓	No	12.00	5.00	Positive	1-5 days (Plasma Half-Life: 5-6 hrs)
Ephedrine	✓	No	>5000.00	5.00	Positive	1-5 days (Plasma Half-Life: 3-6 hrs)

**SPECIMEN VALIDITY TESTING**

REPORTED PRESCRIPTION	TEST OUTCOME	MEASURED RESULT	UNITS	REFERENCE RANGE	ADDITIONAL MEDICATIONS REPORTED BUT NOT TESTED FOR IN THIS REPORT
pH	Normal	5	pH	5 - 9	
Specific Gravity	Normal	1.012		1.000 - 1.060	
Glucose	Normal	0	mg/dL	<20 (Max > 500)	None

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**SPECIMEN VALIDITY TESTING**

REPORTED PRESCRIPTION	TEST OUTCOME	MEASURED RESULT	UNITS	REFERENCE RANGE
Protein	Abnormal	30	mg/dL	<20 (Max > 500)
Bilirubin	Normal	0	mg/dL	<1.80 (Max > 4.00)
Urobilinogen	Normal	0	mg/dL	<1.60 (Max > 4.00)
Blood	Normal	0	mg/dL	<0.02 (Max > 1.00)
Ketone	Normal	0	mg/dL	<3 (Max > 80)
Nitrite	Normal	Negative	mg/dL	0 - 1 (Max > 1)
Leukocytes	Normal	25	WBCs/uL	15 - 40 (Max > 500)
Ascorbic Acid	Abnormal	0	mg/dL	<17 (Max > 40)
Clarity	Abnormal	Slightly-Cloudy		Clear/ Slightly-Cloudy/ Cloudy/ Turbid
Color	Abnormal	Amber		Yellow/ Amber/ Red/ Blue/ Colorless/ Straw

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**ADDITIONAL DETECTED ANALYTES**

ZOPICLONE (IMOVANE, ZIMOVANE), CAFFEINE (CAFCIT, ALERT), EPHEDRINE (AKOVAZ), DEXTROMETHORPHAN (DELSYM), PSEUDOEPHEDRINE (SUDOGEST, SUDAFED), DIPHENHYDRAMINE (BENADRYL), IBUPROFEN (ADVIL, MOTRIN), ALLOPURINOL-OXIPURINOL (ALOPRIM, OXYPRIM, ZYLOPRIM), METOPROLOL (LOPRESSOR), BIOTIN (VITAMIN B7), FAMOTIDINE (PEPCID), METFORMIN (FORTAMET, GLUMETZA, GLUCOPHAGE, RIOMET, JANUMET), ROPINIROLE (REQUIP)

**Drug-Drug Interactions**

 **ESZOPICLONE (LUNESTA) & TAPENTADOL (NUCYNTA)** **SERIOUS**




Concurrent use of opioids and other CNS depressants, such as sleep drugs or tranquilizers, may result in profound sedation, respiratory depression, coma, and/or death.(1)

 **METOPROLOL (LOPRESSOR) & IBUPROFEN (ADVIL, MOTRIN)** **MODERATE**

Nonsteroidal anti-inflammatory drugs (NSAIDs) may attenuate the antihypertensive effect of beta-blockers. The proposed mechanism is NSAID-induced inhibition of renal prostaglandin synthesis, which results in unopposed pressor activity producing hypertension. In addition, NSAIDs can cause fluid retention, which also affects blood pressure. (1)

1.) Duraó V, Prata MM, Concalves LM "Modification of antihypertensive effect of B-adrenoceptor-blocking agents by inhibition of endogenous prostaglandin synthesis." Lancet 2 (1977): 1005-7

**SYMBOL LEGEND**

-  Highly elevated risk for indicated condition or adverse drug reaction. Medication can be prescribed with monitoring; alternative therapy may be needed.
-  Moderately elevated risk for indicated condition or adverse drug reaction. Medication can be prescribed with monitoring; therapy adjustment may be needed.
-  Typical risk for indicated condition or adverse drug reaction. Medication can be prescribed according to standard dosing guidelines.

**MODERATE** Drug interactions of moderate severity. The clinician should assess the patient's characteristics and take action as needed.

**SERIOUS** Severe drug interaction or contraindicated drug combination which may produces serious consequences in most patients. This drug combination generally should not be dispensed or administered to the same patient. Action is required to reduce risk of severe adverse interaction.

Test Name	Outcome	Measured Result	Cutoff	Units	Illicit?	Status
<b>1. ANALGESICS / OPIATES</b>						
Acetaminophen	Negative	0	50.00	ng/mL	No	Consistent Result
Buprenorphine	Negative	0	10.00	ng/mL	No	Consistent Result

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Buprenorphine-3-Glucuronide	Negative	0	10.00	ng/mL	No	Consistent Result
Butorphanol	Negative	0	5.00	ng/mL	No	Consistent Result
Codeine	Negative	0	50.00	ng/mL	No	Consistent Result
Codeine-6-Glucuronide	Negative	0	5.00	ng/mL	No	Consistent Result
Dihydrocodeine	Negative	0	5.00	ng/mL	No	Consistent Result
EDDP	Negative	0	5.00	ng/mL	No	Consistent Result
Fentanyl	Negative	0	10.00	ng/mL	No	Consistent Result
Hydrocodone	Negative	0	5.00	ng/mL	No	Consistent Result
Hydromorphone	Negative	0	5.00	ng/mL	No	Consistent Result
Hydromorphone-3-Glucuronide	Negative	0	10.00	ng/mL	No	Consistent Result
Ketamine	Negative	0	5.00	ng/mL	No	Consistent Result
Levorphanol	Negative	0	5.00	ng/mL	No	Consistent Result
Meperidine	Negative	0	5.00	ng/mL	No	Consistent Result
Methadone	Negative	0	5.00	ng/mL	No	Consistent Result
Morphine	Negative	0	5.00	ng/mL	No	Consistent Result
Morphine-3-Glucuronide	Negative	0	50.00	ng/mL	No	Consistent Result
Morphine-6-Glucuronide	Negative	0	10.00	ng/mL	No	Consistent Result
N-Desmethyl-Tramadol	Negative	0	10.0	ng/mL	No	Consistent Result
Norbuprenorphine	Negative	0	50.00	ng/mL	No	Consistent Result
Norbuprenorphine-3-Glucuronide	Negative	0	50.00	ng/mL	No	Consistent Result
Norcodeine	Negative	0	1.00	ng/mL	No	Consistent Result
Norfentanyl	Negative	0	10.00	ng/mL	No	Consistent Result
Norhydrocodone	Negative	0	5.00	ng/mL	No	Consistent Result
Norketamine	Negative	0	5.00	ng/mL	No	Consistent Result
Noroxycodone	Negative	0	5.00	ng/mL	No	Consistent Result
Noroxymorphone-3-Glucuronide	Negative	0	125.00	ng/mL	No	Consistent Result
Norpropoxyphene	Negative	0	125.00	ng/mL	No	Consistent Result
O-Desmethyl-Tramadol	Negative	0	5.00	ng/mL	No	Consistent Result
Oxycodone	Negative	0	5.00	ng/mL	No	Consistent Result
Oxymorphone	Negative	0	5.00	ng/mL	No	Consistent Result
Oxymorphone-3-Glucuronide	Negative	0	50.00	ng/mL	No	Consistent Result
Propoxyphene	Negative	0	5.00	ng/mL	No	Consistent Result
Tapentadol	Positive	>5000.00	10.00	ng/mL	No	Consistent Result
Tramadol	Negative	0	5.00	ng/mL	No	Consistent Result

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Test Name	Outcome	Measured Result	Cutoff	Units	Illicit?	Status
<b>2. BENZODIAZEPINES</b>						
6-Hydroxybuspirone	Negative	0	1.00	ng/mL	No	Consistent Result
7-Aminoclonazepam	Negative	0	10.00	ng/mL	No	Consistent Result
Alpha-hydroxyalprazolam	Negative	0	5.00	ng/mL	No	Consistent Result
Alpha-Hydroxymidazolam	Negative	0	5.00	ng/mL	No	Consistent Result
Alpha-Hydroxytriazolam	Negative	0	10.00	ng/mL	No	Consistent Result
Alprazolam	Negative	0	5.00	ng/mL	No	Consistent Result
Buspirone	Negative	0	5.00	ng/mL	No	Consistent Result
Chlordiazepoxide	Negative	0	5.00	ng/mL	No	Consistent Result
Clobazam	Negative	0	5.00	ng/mL	No	Consistent Result
Clonazepam	Negative	0	5.00	ng/mL	No	Consistent Result
Desalkylflurazepam	Negative	0	5.00	ng/mL	No	Consistent Result
Diazepam	Negative	0	50.00	ng/mL	No	Consistent Result
Estazolam	Negative	0	5.00	ng/mL	No	Consistent Result
Flunitrazepam	Negative	0	10.00	ng/mL	No	Consistent Result
Flurazepam	Negative	0	5.00	ng/mL	No	Consistent Result
Lorazepam	Negative	0	125.00	ng/mL	No	Consistent Result
Midazolam	Negative	0	5.00	ng/mL	No	Consistent Result
N-Desmethyl-Flunitrazepam	Negative	0	10.00	ng/mL	No	Consistent Result
Norchlordiazepoxide	Negative	0	10.00	ng/mL	No	Consistent Result
Nordiazepam	Negative	0	10.00	ng/mL	No	Consistent Result
Oxazepam	Negative	0	10.00	ng/mL	No	Consistent Result
Prazepam	Negative	0	5.00	ng/mL	No	Consistent Result
Temazepam	Negative	0	10.00	ng/mL	No	Consistent Result
Triazolam	Negative	0	5.00	ng/mL	No	Consistent Result

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<b>3. ANTI-PSYCHOTICS</b>						
9-Hydroxyrisperidone	Negative	0	5.00	ng/mL	No	Consistent Result
Aripiprazole	Negative	0	5.00	ng/mL	No	Consistent Result
Asenapine	Negative	0	5.00	ng/mL	No	Consistent Result
Brexiprazole	Negative	0	1.00	ng/mL	No	Consistent Result
Chlorpromazine	Negative	0	5.00	ng/mL	No	Consistent Result
Clozapine	Negative	0	10.00	ng/mL	No	Consistent Result
Clozapine_N_oxide	Negative	0	50.00	ng/mL	No	Consistent Result
Dehydro-Aripiprazole	Negative	0	125.00	ng/mL	No	Consistent Result
Fluphenazine	Negative	0	5.00	ng/mL	No	Consistent Result
Haloperidol	Negative	0	10.00	ng/mL	No	Consistent Result
Iloperidone	Negative	0	1.00	ng/mL	No	Consistent Result
Lurasidone	Negative	0	0.50	ng/mL	No	Consistent Result
Norquetiapine	Negative	0	1.00	ng/mL	No	Consistent Result
Olanzapine	Negative	0	5.00	ng/mL	No	Consistent Result
Perphenazine	Negative	0	1.00	ng/mL	No	Consistent Result
Quetiapine	Negative	0	10.00	ng/mL	No	Consistent Result
Risperidone	Negative	0	5.00	ng/mL	No	Consistent Result
Thioridazine	Negative	0	5.00	ng/mL	No	Consistent Result
Thiothixene	Negative	0	5.00	ng/mL	No	Consistent Result
Ziprasidone	Negative	0	50.00	ng/mL	No	Consistent Result

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Test Name	Outcome	Measured Result	Cutoff	Units	Illicit?	Status
<b>4. ANTI-DEPRESSANTS / SSRI / SNRI / TCA</b>						
Amitriptyline	Negative	0	10.00	ng/mL	No	Consistent Result
Amoxapine	Negative	0	0.50	ng/mL	No	Consistent Result
Bupropion	Negative	0	5.00	ng/mL	No	Consistent Result
Citalopram	Negative	0	5.00	ng/mL	No	Consistent Result
Clomipramine	Negative	0	5.00	ng/mL	No	Consistent Result
D-L-Kavain	Negative	0	5.00	ng/mL	No	Consistent Result
Desipramine	Negative	0	10.00	ng/mL	No	Consistent Result
Desmethoxyyngonin	Negative	0	50.00	ng/mL	No	Consistent Result
Dihydrokavain	Negative	0	50.00	ng/mL	No	Consistent Result
Dihydromethysticin	Negative	0	10.00	ng/mL	No	Consistent Result
Doxepin	Negative	0	5.00	ng/mL	No	Consistent Result
Duloxetine	Negative	0	50.00	ng/mL	No	Consistent Result
Fluoxetine	Negative	0	50.00	ng/mL	No	Consistent Result
Fluvoxamine	Negative	0	5.00	ng/mL	No	Consistent Result
Hydroxybupropion	Negative	0	1.00	ng/mL	No	Consistent Result
Imipramine	Negative	0	5.00	ng/mL	No	Consistent Result
Methysticin	Negative	0	50.00	ng/mL	No	Consistent Result
Milnacipran	Negative	0	0.50	ng/mL	No	Consistent Result
Mirtazapine	Negative	0	5.00	ng/mL	No	Consistent Result
N-Desmethyl-Clomipramine	Negative	0	5.00	ng/mL	No	Consistent Result
Nordoxepin	Negative	0	5.00	ng/mL	No	Consistent Result
Norfluoxetine	Negative	0	1.00	ng/mL	No	Consistent Result
Normirtazapine	Negative	0	5.00	ng/mL	No	Consistent Result
Nortriptyline	Negative	0	5.00	ng/mL	No	Consistent Result
O-Desmethyl-Venlafaxine	Negative	0	5.00	ng/mL	No	Consistent Result
Paroxetine	Negative	0	50.00	ng/mL	No	Consistent Result
Sertraline	Negative	0	5.00	ng/mL	No	Consistent Result
Trazodone	Negative	0	5.00	ng/mL	No	Consistent Result
Venlafaxine	Negative	0	5.00	ng/mL	No	Consistent Result
Vilazodone	Negative	0	50.00	ng/mL	No	Consistent Result
Vortioxetine	Negative	0	0.50	ng/mL	No	Consistent Result
Yanogonin	Negative	0	50.00	ng/mL	No	Consistent Result
<b>5. DEPRESSANTS</b>						
Eszopiclone	Positive	978.00	0.50	ng/mL	No	Consistent Result
Zaleplon	Negative	0	5.00	ng/mL	No	Consistent Result
Zolpidem	Negative	0	5.00	ng/mL	No	Consistent Result
Zopiclone-N-Oxide	Positive	2395.00	250.00	ng/mL	No	Consistent Result

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<b>6. ANTI-CONVULSANTS</b>						
10-11-Dihydro-10-Hydroxycarbamazepine	Negative	0	10.00	ng/mL	No	Consistent Result
Carbamazepine	Negative	0	5.00	ng/mL	No	Consistent Result
Gabapentin	Negative	0	50.00	ng/mL	No	Consistent Result
Lamotrigine	Negative	0	50.00	ng/mL	No	Consistent Result
Levetiracetam	Negative	0	10.00	ng/mL	No	Consistent Result
Licarbazepine	Negative	0	50.00	ng/mL	No	Consistent Result
Oxcarbazepine	Negative	0	5.00	ng/mL	No	Consistent Result
Phenytoin	Negative	0	1.00	ng/mL	No	Consistent Result
Pregabalin	Negative	0	10.00	ng/mL	No	Consistent Result
Primidone	Negative	0	5.00	ng/mL	No	Consistent Result
Tiagabine	Negative	0	10.00	ng/mL	No	Consistent Result
Topiramate	Negative	0	50.00	ng/mL	No	Consistent Result
Valproic Acid	Negative	0	50.00	ng/mL	No	Consistent Result
Zonisamide	Negative	0	125.00	ng/mL	No	Consistent Result
<b>7. MUSCLE RELAXANTS</b>						
Baclofen	Negative	0	10.00	ng/mL	No	Consistent Result
Carisoprodol	Negative	0	10.00	ng/mL	No	Consistent Result
Cyclobenzaprine	Negative	0	10.00	ng/mL	No	Consistent Result
Meprobamate	Negative	0	50.00	ng/mL	No	Consistent Result
Metaxalone	Negative	0	1.00	ng/mL	No	Consistent Result
Methocarbamol	Negative	0	50.00	ng/mL	No	Consistent Result
<b>8. STIMULANTS / ADHD</b>						
Amphetamine	Negative	0	10.00	ng/mL	No	Consistent Result
Atomoxetine	Negative	0	1.00	ng/mL	No	Consistent Result
Caffeine	Positive	12.00	5.00	ng/mL	No	Inconsistent Result
Ephedrine	Positive	>5000.00	5.00	ng/mL	No	Inconsistent Result
Guanfacine	Negative	0	0.50	ng/mL	No	Consistent Result
Lisdexamfetamine	Negative	0	5.00	ng/mL	No	Consistent Result
Methylphenidate	Negative	0	5.00	ng/mL	No	Consistent Result
Ritalinic Acid	Negative	0	5.00	ng/mL	No	Consistent Result
<b>9. DECONGESTANTS</b>						
Dextromethorphan	Positive	549.00	5.00	ng/mL	No	Inconsistent Result
Pseudoephedrine	Positive	>5000.00	5.00	ng/mL	No	Inconsistent Result
<b>10. APPETITE STIMULANTS</b>						
Marinol	Negative	0	10.00	ng/mL	No	Consistent Result
Phentermine	Negative	0	5.00	ng/mL	No	Consistent Result





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<b>11. ANTIDOTES</b>						
Naloxone	Negative	0	5.00	ng/mL	No	Consistent Result
Naltrexone	Negative	0	5.00	ng/mL	No	Consistent Result

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<b>12. ILLICITS</b>						
5-Fluoro-NPB-22	Negative	0	10.00	ng/mL	Yes	Consistent Result
5-MeO-DMT	Negative	0	5.00	ng/mL	Yes	Consistent Result
6-MAM (heroin metabolite)	Negative	0	5.00	ng/mL	Yes	Consistent Result
7-HydroxyMitragynine (Kratom)	Negative	0	5.00	ng/mL	Yes	Consistent Result
AB-FUBINACA	Negative	0	50.00	ng/mL	Yes	Consistent Result
Acetyl-Fentanyl	Negative	0	5.00	ng/mL	Yes	Consistent Result
Alpha-PVP	Negative	0	5.00	ng/mL	Yes	Consistent Result
AM2201 (Spice Cannabinoid)	Negative	0	10.00	ng/mL	Yes	Consistent Result
Benzoylcegonine	Negative	0	50.00	ng/mL	Yes	Consistent Result
Carfentanil	Negative	0	5.00	ng/mL	Yes	Consistent Result
Cocaine	Negative	0	5.00	ng/mL	Yes	Consistent Result
Didesmethyl-U-47700	Negative	0	5.00	ng/mL	Yes	Consistent Result
DMT	Negative	0	5.00	ng/mL	Yes	Consistent Result
FDU-PB-22	Negative	0	10.00	ng/mL	Yes	Consistent Result
HU-210 (Spice Cannabinoid)	Negative	0	125.00	ng/mL	Yes	Consistent Result
JWH-019 (Spice Cannabinoid)	Negative	0	125.00	ng/mL	Yes	Consistent Result
JWH-073 4-Hydroxybutyl (Spice Cannabinoid)	Negative	0	10.00	ng/mL	Yes	Consistent Result
JWH-081 (Spice Cannabinoid)	Negative	0	125.00	ng/mL	Yes	Consistent Result
JWH-122 (Spice Cannabinoid)	Negative	0	125.00	ng/mL	Yes	Consistent Result
JWH-18-5-pentanoic acid (Spice Cannabinoid)	Negative	0	10.00	ng/mL	Yes	Consistent Result
JWH-18-5-pentanyl (Spice Cannabinoid)	Negative	0	5.00	ng/mL	Yes	Consistent Result
JWH-250-5OH-pentanyl (Spice Cannabinoid)	Negative	0	50.00	ng/mL	Yes	Consistent Result
MDA	Negative	0	50.00	ng/mL	Yes	Consistent Result
MDEA	Negative	0	10.00	ng/mL	Yes	Consistent Result
MDMA	Negative	0	50.00	ng/mL	Yes	Consistent Result
MDPV	Negative	0	5.00	ng/mL	Yes	Consistent Result
Mephedrone	Negative	0	5.00	ng/mL	Yes	Consistent Result
Methamphetamine	Negative	0	5.00	ng/mL	Yes	Consistent Result
Methylone	Negative	0	5.00	ng/mL	Yes	Consistent Result
Mitragynine (Kratom)	Negative	0	5.00	ng/mL	Yes	Consistent Result
MMB-CHMICA	Negative	0	5.00	ng/mL	Yes	Consistent Result
N-Desmethyl-U-47700	Negative	0	5.00	ng/mL	Yes	Consistent Result
Normephedrone	Negative	0	5.00	ng/mL	Yes	Consistent Result
PCP	Negative	0	5.00	ng/mL	Yes	Consistent Result
THC (Marijuana metabolite)	Negative	0	10.00	ng/mL	Yes	Consistent Result

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<b>Patient :</b>		<b>Acc #:</b>	AL-URI-10490
Patient #:	Birth:		
Doctor:	Age: 68 years	Collection Date:	03/19/2019 11:34
	Gender: Female	Received in Lab:	03/20/2019 11:34

Test Name	Outcome	Measured Result	Cutoff	Units	Illicit?	Status
<b>13. BARBITURATES</b>						
Amobarbital	Negative	0	5.00	ng/mL	No	Consistent Result
Butabarbital	Negative	0	5.00	ng/mL	No	Consistent Result
Butalbital	Negative	0	5.00	ng/mL	No	Consistent Result
Pentobarbital	Negative	0	5.00	ng/mL	No	Consistent Result
Secobarbital	Negative	0	5.00	ng/mL	No	Consistent Result
<b>14. DIRECT BIOMARKERS</b>						
(-)-Cotinine	Negative	0	5.00	ng/mL	No	Consistent Result
Ethyl Glucuronide (Ethanol)	Negative	0	5.00	ng/mL	No	Consistent Result
Ethyl Sulfate (Ethanol)	Negative	0	5.00	ng/mL	No	Consistent Result
<b>15. ANTI-INFLAMMATORY / NSAIDs</b>						
Celecoxib	Negative	0	0.50	ng/mL	No	Consistent Result
Chlorpheniramine	Negative	0	1.00	ng/mL	No	Consistent Result
Colchicine	Negative	0	50.00	ng/mL	No	Consistent Result
Diclofenac	Negative	0	5.00	ng/mL	No	Consistent Result
Etodolac	Negative	0	5.00	ng/mL	No	Consistent Result
Febuxostat	Negative	0	1.00	ng/mL	No	Consistent Result
Hydroxychloroquine	Negative	0	5.00	ng/mL	No	Consistent Result
Ibuprofen	Positive	>5000.00	50.00	ng/mL	No	Inconsistent Result
Indomethacin	Negative	0	1.00	ng/mL	No	Consistent Result
Meloxicam	Negative	0	0.50	ng/mL	No	Consistent Result
Naproxen	Negative	0	1.00	ng/mL	No	Consistent Result
Olopatadine	Negative	0	50.00	ng/mL	No	Consistent Result
Oxipurinol	Positive	589.00	50.00	ng/mL	No	Inconsistent Result
Piroxicam	Negative	0	1.00	ng/mL	No	Consistent Result
Sumatriptan	Negative	0	5.00	ng/mL	No	Consistent Result
Tofacitinib	Negative	0	0.50	ng/mL	No	Consistent Result
<b>16. ANTI-HISTAMINES</b>						
Cetirizine	Negative	0	1.00	ng/mL	No	Consistent Result
Desloratadine	Negative	0	1.00	ng/mL	No	Consistent Result
Diphenhydramine	Positive	>5000.00	0.50	ng/mL	No	Inconsistent Result
Fexofenadine	Negative	0	0.50	ng/mL	No	Consistent Result
Hydroxyzine	Negative	0	1.00	ng/mL	No	Consistent Result
Loratadine	Negative	0	1.00	ng/mL	No	Consistent Result
Montelukast	Negative	0	5.00	ng/mL	No	Consistent Result

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**Patient :** **Acc #:** AL-URI-10490  
 Patient #: Birth:  
 Doctor: Age: 68 years Collection Date: 03/19/2019 11:34  
 Gender: Female Received in Lab: 03/20/2019 11:34

Test Name	Outcome	Measured Result	Cutoff	Units	Illicit?	Status
<b>17. CARDIOVASCULAR</b>						
Acebutolol	Negative	0	1.00	ng/mL	No	Consistent Result
Alpha-hydroxymetoprolol	Positive	>5000.00	1.00	ng/mL	No	Inconsistent Result
Amiodarone	Negative	0	50.00	ng/mL	No	Consistent Result
Amlodipine	Negative	0	5.00	ng/mL	No	Consistent Result
Apixaban	Negative	0	125.00	ng/mL	No	Consistent Result
Atenolol	Negative	0	1.00	ng/mL	No	Consistent Result
Atorvastatin	Negative	0	1.00	ng/mL	No	Consistent Result
Atorvastatin Lactone	Negative	0	5.00	ng/mL	No	Consistent Result
Benazepril	Negative	0	1.00	ng/mL	No	Consistent Result
Bisoprolol	Negative	0	5.00	ng/mL	No	Consistent Result
Candesartan	Negative	0	0.50	ng/mL	No	Consistent Result
Candesartan Cilexetil	Negative	0	5.00	ng/mL	No	Consistent Result
Carvedilol	Negative	0	50.00	ng/mL	No	Consistent Result
Cilostazol	Negative	0	1.00	ng/mL	No	Consistent Result
Clopidogrel	Negative	0	0.50	ng/mL	No	Consistent Result
Dabigatran	Negative	0	5.00	ng/mL	No	Consistent Result
Diltiazem	Negative	0	1.00	ng/mL	No	Consistent Result
Dipyridamole	Negative	0	1.00	ng/mL	No	Consistent Result
Dronedarone	Negative	0	0.50	ng/mL	No	Consistent Result
Eletriptan	Negative	0	5.00	ng/mL	No	Consistent Result
Enalaprilat	Negative	0	0.50	ng/mL	No	Consistent Result
Ezetimibe	Negative	0	125.00	ng/mL	No	Consistent Result
Fenofibric Acid	Negative	0	1.00	ng/mL	No	Consistent Result
Flecainide	Negative	0	0.50	ng/mL	No	Consistent Result
Gemfibrozil	Negative	0	50.00	ng/mL	No	Consistent Result
Hydrochlorothiazide	Negative	0	125.00	ng/mL	No	Consistent Result
Irbesartan	Negative	0	1.00	ng/mL	No	Consistent Result
Labetalol	Negative	0	0.50	ng/mL	No	Consistent Result
Lisinopril	Negative	0	1250.00	ng/mL	No	Consistent Result
Losartan	Negative	0	0.50	ng/mL	No	Consistent Result
Metoprolol	Positive	>5000.00	1.00	ng/mL	No	Inconsistent Result
N-Desethylamiodarone	Negative	0	1.00	ng/mL	No	Consistent Result
Nadolol	Negative	0	0.50	ng/mL	No	Consistent Result
Nifedipine	Negative	0	1.00	ng/mL	No	Consistent Result
Olmesartan Acid	Negative	0	1.00	ng/mL	No	Consistent Result
Pentoxifylline	Negative	0	1.00	ng/mL	No	Consistent Result
Propranolol	Negative	0	0.50	ng/mL	No	Consistent Result
Ranolazine	Negative	0	50.00	ng/mL	No	Consistent Result

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**Patient :** **Acc #:** AL-URI-10490  
 Patient #: Birth:  
 Doctor: Age: 68 years Collection Date: 03/19/2019 11:34  
Gender: Female Received in Lab: 03/20/2019 11:34

Test Name	Outcome	Measured Result	Cutoff	Units	Illicit?	Status
Rivaroxaban	Negative	0	5.00	ng/mL	No	Consistent Result
Simvastatin	Negative	0	5.00	ng/mL	No	Consistent Result
Telmisartan	Negative	0	0.50	ng/mL	No	Consistent Result
Ticagrelor	Negative	0	5.00	ng/mL	No	Consistent Result
Valsartan	Negative	0	125.00	ng/mL	No	Consistent Result
Verapamil	Negative	0	1.00	ng/mL	No	Consistent Result
Warfarin	Negative	0	1.00	ng/mL	No	Consistent Result
<b>18. ANTIMICROBIAL</b>						
Itraconazole	Negative	0	5.00	ng/mL	No	Consistent Result
Nitrofurantoin	Negative	0	125.00	ng/mL	No	Consistent Result
<b>19. GASTROINTESTINAL / DIETARY</b>						
Biotin	Positive	125.00	1.00	ng/mL	No	Inconsistent Result
Famotidine	Positive	37.00	5.00	ng/mL	No	Inconsistent Result
Hyoscyamine	Negative	0	1.00	ng/mL	No	Consistent Result
Lansoprazole	Negative	0	0.50	ng/mL	No	Consistent Result
Metoclopramide	Negative	0	0.50	ng/mL	No	Consistent Result
Omeprazole	Negative	0	1.00	ng/mL	No	Consistent Result
Omeprazole Acid	Negative	0	50.00	ng/mL	No	Consistent Result
Pantoprazole	Negative	0	5.00	ng/mL	No	Consistent Result
Ranitidine	Negative	0	1.00	ng/mL	No	Consistent Result
<b>20. ANTI-EMETIC</b>						
Ondansetron	Negative	0	0.50	ng/mL	No	Consistent Result
Promethazine	Negative	0	1.00	ng/mL	No	Consistent Result
<b>21. DIABETIC</b>						
Glimepiride	Negative	0	5.00	ng/mL	No	Consistent Result
Glipizide	Negative	0	5.00	ng/mL	No	Consistent Result
Glyburide	Negative	0	5.00	ng/mL	No	Consistent Result
Linagliptin	Negative	0	5.00	ng/mL	No	Consistent Result
Metformin	Positive	204.00	1.00	ng/mL	No	Inconsistent Result
Nateglinide	Negative	0	5.00	ng/mL	No	Consistent Result
Pioglitazone	Negative	0	0.50	ng/mL	No	Consistent Result
Repaglinide	Negative	0	1.00	ng/mL	No	Consistent Result
Rosiglitazone	Negative	0	1.00	ng/mL	No	Consistent Result
Saxagliptin	Negative	0	1.00	ng/mL	No	Consistent Result
Sitagliptin	Negative	0	5.00	ng/mL	No	Consistent Result

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<b>Patient :</b>		<b>Acc #:</b>	AL-URI-10490
Patient #:	Birth:		
Doctor:	Age: 68 years	Collection Date:	03/19/2019 11:34
	Gender: Female	Received in Lab:	03/20/2019 11:34

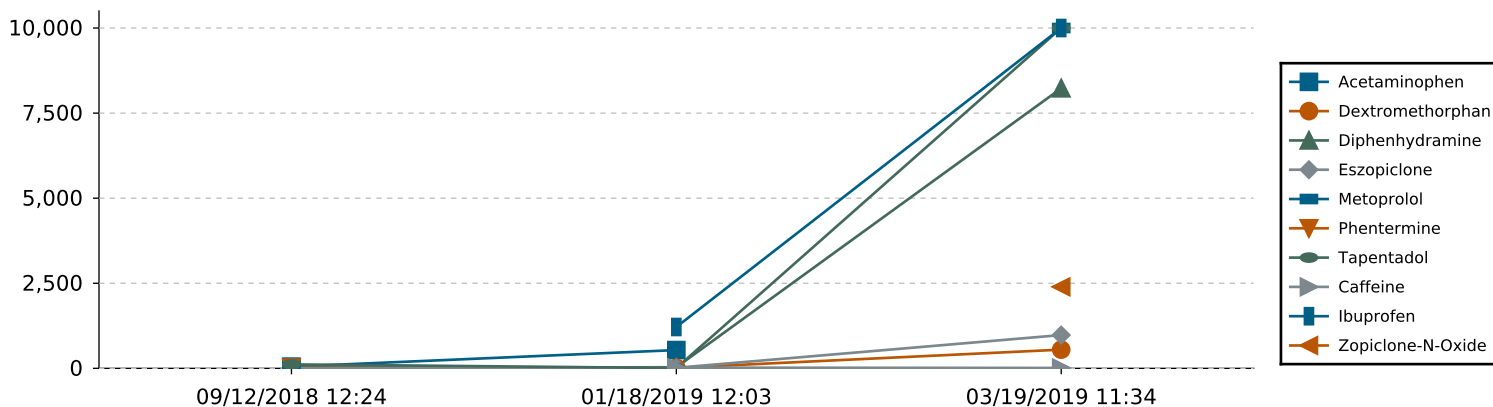
Test Name	Outcome	Measured Result	Cutoff	Units	Illicit?	Status
<b>22. DIURETICS / INCONTINENCE</b>						
Acetazolamide	Negative	0	5.00	ng/mL	No	Consistent Result
Alfuzosin	Negative	0	0.50	ng/mL	No	Consistent Result
Canrenone	Negative	0	1.00	ng/mL	No	Consistent Result
Chlorothiazide	Negative	0	50.00	ng/mL	No	Consistent Result
Darifenacin	Negative	0	5.00	ng/mL	No	Consistent Result
Doxazosin	Negative	0	5.00	ng/mL	No	Consistent Result
Furosemide	Negative	0	1250.00	ng/mL	No	Consistent Result
Indapamide	Negative	0	1.00	ng/mL	No	Consistent Result
Solifenacin	Negative	0	1.00	ng/mL	No	Consistent Result
Terazosin	Negative	0	5.00	ng/mL	No	Consistent Result
Torsemide	Negative	0	50.00	ng/mL	No	Consistent Result
Triamterene	Negative	0	0.50	ng/mL	No	Consistent Result
<b>23. PDE (Phosphodiesterase Inhibitors)</b>						
Sildenafil	Negative	0	1.00	ng/mL	No	Consistent Result
Tadalafil	Negative	0	5.00	ng/mL	No	Consistent Result
Vardenafil	Negative	0	125.00	ng/mL	No	Consistent Result
<b>24. CORTICOSTEROIDS / HORMONE THERAPY</b>						
Budesonide	Negative	0	1.00	ng/mL	No	Consistent Result
Dexamethasone	Negative	0	1.00	ng/mL	No	Consistent Result
Finasteride	Negative	0	1.00	ng/mL	No	Consistent Result
Levothyroxine	Negative	0	50.00	ng/mL	No	Consistent Result
Prednisolone	Negative	0	1.00	ng/mL	No	Consistent Result
Raloxifene	Negative	0	5.00	ng/mL	No	Consistent Result
<b>25. ANTI-NEOPLASTICS / CANCER THERAPY</b>						
Methotrexate	Negative	0	1.00	ng/mL	No	Consistent Result
<b>26. DEMENTIA (Parkinson's/Alzheimer's)</b>						
Donepezil	Negative	0	1.00	ng/mL	No	Consistent Result
Rivastigmine	Negative	0	5.00	ng/mL	No	Consistent Result
Ropinirole	Positive	145.00	0.50	ng/mL	No	Inconsistent Result

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<b>Patient :</b>		<b>Acc #:</b>	AL-URI-10490
Patient #:	Birth:		
Doctor:	Age: 68 years	Collection Date:	03/19/2019 11:34
	Gender: Female	Received in Lab:	03/20/2019 11:34

**Historical Result Data**



**Comments:**

This test was performed at Alcala Testing and Analysis Services (CLIA# 05D2027247). Dried Blood Spot specimens are analyzed using CleanAssure™ (patent pending) technology. In contrast to urine, in dried blood spot specimens (CleanAssure™ DBS) detection may be reduced (compound-specific). E.g. Morphine and Fentanyl exhibiting short plasma half-lives may require a follow up test with a urine specimen. In dried blood spot specimens parent drugs are often detected in higher concentrations than their metabolites commonly observed in urine specimens.

**Morphine** is a commonly detected metabolite among patients taking **Codeine**. **Hydromorphone** is a commonly detected metabolite among patients taking Hydrocodone and Morphine.

An active molecule of OPANA, **Oxymorphone** is a commonly detected metabolite among patients taking Oxycodone. **OPANA (Oxymorphone) will not metabolize to Noroxycodone or Oxycodone.**

**Oxazepam** is a 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.

**Nortrimipramine**, the metabolite of **Trimipramine**, may cause a false positive result for **Imipramine** in this assay. Trimipramine (brand name **Surmontil**) and its metabolite are not part of this assay. Trimipramine will be differentiated from other tricyclics, but its metabolite may cause interference with Imipramine.

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.

In case of patients consuming HYDROCODONE-containing medications: **Norhydrocodone** is the major metabolite of **Hydrocodone** indicating presence of Hydrocodone in **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.

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<b>Patient :</b>		<b>Acc #:</b>	AL-URI-10490
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**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 Bebarata,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.)

**REFERENCES for DRUG-DRUG-INTERACTIONS are available upon request.**

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**Notes:**

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

Date: 03/21/2019 19:48