

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

**Patient :** **Acc #:** AL-URI-9192  
**Patient #:** **Birth:**  
**Doctor:** **Age:** 51 years  
**Gender:** Female **Collection Date:** 02/20/2019 11:24  
**Received in Lab:** 02/25/2019 11:24

**Drug Adherence Assessment Report**

**Prescribed Medications:** BUPROPION (WELLBUTRIN), BUTABARBITAL (BUTIBEL, BUTISOL, PYRIDIUM), OXYCODONE (ROXYCODONE, OXYCONTIN), PHENTERMINE (ADIPEX-P, DUROMINE), TRAMADOL (ULTRAM, CONZIP)

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

REPORTED PRESCRIPTION	FLAG	ANTICIPATED POSITIVE(S)	TEST OUTCOME	DETECTION WINDOW
PHENTERMINE (ADIPEX-P, DUROMINE)	✓	Phentermine	Positive	1-2 days (Plasma Half-Life: 16-31 hrs)
TRAMADOL (ULTRAM, CONZIP)	⚠	Tramadol	Positive	0.5-2 days (Plasma Half-Life: 4-8 hrs)
TRAMADOL (ULTRAM, CONZIP)	⚠	N-Desmethyl-Tramadol	Positive	0.5-2 days (Plasma Half-Life: 4-10 hrs)
TRAMADOL (ULTRAM, CONZIP)	⚠	O-Desmethyl-Tramadol	Positive	0.5-2 days (Plasma Half-Life: 4-10 hrs)

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

REPORTED PRESCRIPTION	FLAG	ANTICIPATED POSITIVE(S)	TEST OUTCOME	DETECTION WINDOW
BUPROPION (WELLBUTRIN)	⊗ ⚠	Bupropion	Negative	8 days (Plasma Half-Life: 12-30 hrs)
BUTABARBITAL (BUTIBEL, BUTISOL, PYRIDIUM)	⚠	Butabarbital	Negative	1 day-3 weeks (Plasma Half-Life: 100 hrs)
OXYCODONE (ROXYCODONE, OXYCONTIN)	⊗ ⚠	Oxycodone	Negative	1-4 days (Plasma Half-Life: 3-6 hrs)
OXYCODONE (ROXYCODONE, OXYCONTIN)	⊗ ⚠	Noroxycodone	Negative	1-4 days (Plasma Half-Life: 3-6 hrs)
OXYCODONE (ROXYCODONE, OXYCONTIN)	⊗ ⚠	Oxymorphone	Negative	1-4 days (Plasma Half-Life: 7.5-9.5 hrs)

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

REPORTED PRESCRIPTION	FLAG	ILLICIT	MEASURED RESULT	CUTOFF	TEST OUTCOME	DETECTION WINDOW
Acetaminophen	✓	No	>5000.00	50.00	Positive	2-3 days (Plasma Half-Life: 2-3 hrs)
D-L-Kavain	✓	No	166.00	5.00	Positive	up to 48 hrs (Plasma Half-Life: 9 hrs)
Butalbital	✓	No	4634.00	5.00	Positive	3-10 days (Plasma Half-Life: 35 hrs)
Pseudoephedrine	✓	No	659.00	5.00	Positive	1-5 days (Plasma Half-Life: 4-8 hrs)
Caffeine	✓	No	1734.00	5.00	Positive	1-5 days (Plasma Half-Life: 5-6 hrs)
Ephedrine	✓	No	659.00	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	7	pH	5 - 9	None
Specific Gravity	Normal	1.012		1.000 - 1.060	

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	Gender: Female		

**SPECIMEN VALIDITY TESTING**

REPORTED PRESCRIPTION	TEST OUTCOME	MEASURED RESULT	UNITS	REFERENCE RANGE
Glucose	Normal	0	mg/dL	<20 (Max > 500)
Protein	Normal	0	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	Abnormal	0.03	mg/dL	<0.02 (Max > 1.00)
Ketone	Normal	0	mg/dL	<3 (Max > 80)
Nitrite	Normal	Negative	mg/dL	0.00 - 1.00 (Max > 1.00)
Leukocytes	Normal	0	WBCs/uL	15 - 40 (Max > 500)
Ascorbic Acid	Normal	0	mg/dL	<17 (Max > 40)
Clarity	Abnormal	Cloudy		Clear/ Slightly-Cloudy/ Cloudy/ Turbid
Color	Abnormal	Amber		Yellow/ Amber/ Red/ Blue/ Colorless/ Straw

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**ADDITIONAL DETECTED ANALYTES**

ACETAMINOPHEN (TYLENOL, MAPAP), KAVA (Piper methysticum), CAFFEINE (CAFCIT, ALERT), EPHEDRINE (AKOVAZ), PSEUDOEPHEDRINE (SUDOGEST, SUDAFED), BUTALBITAL (AXOTAL, ESGIC, FIORICET, TRIAD)

**Drug-Drug Interactions**

**⊗ OXYCODONE (ROXYCODONE, OXYCONTIN) & BUPROPION (WELLBUTRIN) SERIOUS**

The use of bupropion is associated with a dose-related risk of seizures. The risk may be further increased when coadministered with selective serotonin reuptake inhibitors (SSRI antidepressants or anorectics), monoamine oxidase inhibitors, neuroleptic agents, central nervous system stimulants, opioids, tricyclic antidepressants, other tricyclic compounds (e.g., cyclobenzaprine, phenothiazines), systemic steroids, or any substance that can reduce the seizure threshold (e.g., carbapenems, cholinergic agents, fluoroquinolones, interferons, chloroquine, mefloquine, lindane, theophylline). These agents are often individually epileptogenic and may have additive effects when combined. (1-2)

- 1.) "Product Information. Wellbutrin XL (buPROPion)." GlaxoSmithKline, Philadelphia, PA.
- 2.) Sheehan DV, Welch JB, Fishman SM "A case of bupropion-induced seizure." J Nerv Ment Dis 174 (1986): 496-8

**⚠ BUTABARBITAL (BUTIBEL, BUTISOL, PYRIDIUM) & OXYCODONE (ROXYCODONE, OX MODERATE**

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)

**⚠ BUTABARBITAL (BUTIBEL, BUTISOL, PYRIDIUM) & TRAMADOL (ULTRAM, CONZIP) MODERATE**

Tramadol analgesic efficacy may be decreased due to lower mu-opioid receptor mediated analgesia.(1,9,10). Higher concentrations of tramadol may be associated with increased inhibition of norepinephrine and serotonin reuptake, increasing risk for seizures and serotonin syndrome.(1) Symptoms of serotonin syndrome may include tremor, agitation, diaphoresis, hyperreflexia, clonus, tachycardia, hyperthermia, and muscle rigidity.(7)

**⚠ TRAMADOL (ULTRAM, CONZIP) & BUPROPION (WELLBUTRIN) MODERATE**




The risk of seizures may be increased during coadministration of tramadol with any substance that can reduce the seizure threshold, such as selective serotonin reuptake inhibitors (SSRI antidepressants or anorectics), monoamine oxidase inhibitors, neuroleptic agents, central nervous system stimulants, opioids, tricyclic antidepressants, other tricyclic compounds (e.g., cyclobenzaprine, phenothiazines), carbapenems, cholinergic agents, fluoroquinolones, interferons, chloroquine, mefloquine, lindane, and theophylline. (1-2)

- 1.) "Product Information. Ultram (tramadol)." McNeil Pharmaceutical, Raritan, NJ.
- 2.) Pisani F, Spina E, Oteri G "Antidepressant drugs and seizure susceptibility: from in vitro data to clinical practice." Epilepsia 40(Suppl 10) (1999): S48-56

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**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 produce 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	Positive	>5000.00	50.00	ng/mL	No	Inconsistent Result
Buprenorphine	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
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
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
N-Desmethyl-Tramadol	Positive	>5000.0	10.0	ng/mL	No	Consistent Result
Norbuprenorphine	Negative	0	50.00	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	Inconsistent Result
Norpropoxyphene	Negative	0	125.00	ng/mL	No	Consistent Result
O-Desmethyl-Tramadol	Positive	945.00	5.00	ng/mL	No	Consistent Result
Oxycodone	Negative	0	5.00	ng/mL	No	Inconsistent Result

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Test Name	Outcome	Measured Result	Cutoff	Units	Illicit?	Status
Oxymorphone	Negative	0	5.00	ng/mL	No	Inconsistent Result
Propoxyphene	Negative	0	5.00	ng/mL	No	Consistent Result
Tapentadol	Negative	0	10.00	ng/mL	No	Consistent Result
Tramadol	Positive	309.00	5.00	ng/mL	No	Consistent Result
<b>2. BENZODIAZEPINES</b>						
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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Test Name	Outcome	Measured Result	Cutoff	Units	Illicit?	Status
<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
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
Fluphenazine	Negative	0	5.00	ng/mL	No	Consistent Result
Haloperidol	Negative	0	10.00	ng/mL	No	Consistent Result
Olanzapine	Negative	0	5.00	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
Ziprasidone	Negative	0	50.00	ng/mL	No	Consistent Result
<b>4. ANTI-DEPRESSANTS / SSRI / SNRI / TCA</b>						
Amitriptyline	Negative	0	10.00	ng/mL	No	Consistent Result
Bupropion	Negative	0	5.00	ng/mL	No	Inconsistent Result
Citalopram	Negative	0	5.00	ng/mL	No	Consistent Result
Clomipramine	Negative	0	5.00	ng/mL	No	Consistent Result
D-L-Kavain	Positive	166.00	5.00	ng/mL	No	Inconsistent Result
Desipramine	Negative	0	10.00	ng/mL	No	Consistent Result
Dihydrokavain	Negative	0	50.00	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
Imipramine	Negative	0	5.00	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
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
<b>5. DEPRESSANTS</b>						
Zaleplon	Negative	0	5.00	ng/mL	No	Consistent Result
Zolpidem	Negative	0	5.00	ng/mL	No	Consistent Result
Zopiclone-N-Oxide	Negative	0	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
Oxcarbazepine	Negative	0	5.00	ng/mL	No	Consistent Result
Pregabalin	Negative	0	10.00	ng/mL	No	Consistent Result
Tiagabine	Negative	0	10.00	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
<b>8. STIMULANTS / ADHD</b>						
Amphetamine	Negative	0	10.00	ng/mL	No	Consistent Result
Caffeine	Positive	1734.00	5.00	ng/mL	No	Inconsistent Result
Ephedrine	Positive	659.00	5.00	ng/mL	No	Inconsistent 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	Negative	0	5.00	ng/mL	No	Consistent Result
Pseudoephedrine	Positive	659.00	5.00	ng/mL	No	Inconsistent Result
<b>10. APPETITE STIMULANTS</b>						
Marinol	Negative	0	10.00	ng/mL	No	Consistent Result
Phentermine	Positive	4128.00	5.00	ng/mL	No	Consistent Result
<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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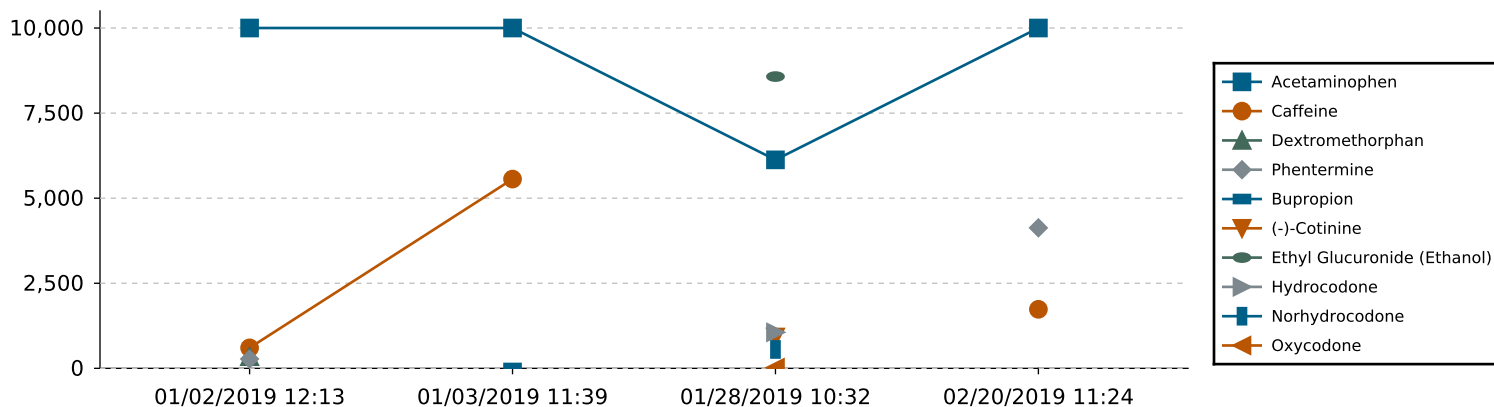
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<b>13. BARBITURATES</b>						
Amobarbital	Negative	0	5.00	ng/mL	No	Consistent Result
Butabarbital	Negative	0	5.00	ng/mL	No	<b>Inconsistent Result</b>
Butalbital	<b>Positive</b>	<b>4634.00</b>	5.00	<b>ng/mL</b>	No	<b>Inconsistent Result</b>
Pentobarbital	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	0.50	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

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**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-9192
Patient #:	Birth:		
Doctor:	Age: 51 years	Collection Date:	02/20/2019 11:24
	Gender: Female	Received in Lab:	02/25/2019 11:24

**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: 02/26/2019 19:42