

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-OF-13380
Patient #:	Birth:		
Doctor:	Age: 90 years	Collection Date:	05/14/2019 11:15
	Gender: Female	Received in Lab:	05/22/2019 11:15

Drug Adherence Assessment Report

ORAL FLUID SPECIMEN: Detection Range see NOTES.

Prescribed Medications: ASPIRIN, ATORVASTATIN (LIPITOR), CALCIUM, CENTRUM SILVER, DONEPEZIL (ARICEPT), HYDROCHLOROTHIAZIDE (MICROZIDE), PREGABALIN (LYRICA), MOMETASONE FUROATE, OXYBUTYNIN CHLORIDE, PROPRANOLOL (INDERAL, HEMANGEOL), VITAMIN E (Tocopherol)

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

REPORTED PRESCRIPTION	FLAG	ANTICIPATED POSITIVE(S)	TEST OUTCOME	DETECTION WINDOW
DONEPEZIL (ARICEPT)	✓	Donepezil	Positive	Unknown (Plasma Half-Life: 70 hrs)
HYDROCHLOROTHIAZIDE (MICROZIDE)	✓	Hydrochlorothiazide	Positive	Unknown (Plasma Half-Life: 6-15 hrs)
PREGABALIN (LYRICA)	✓	Pregabalin	Positive	1-2 days (Plasma Half-Life: 6-6.3 hrs)
PROPRANOLOL (INDERAL, HEMANGEOL)	✓	Propranolol	Positive	Unknown (Plasma Half-Life: 4-5 hrs)

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

REPORTED PRESCRIPTION	FLAG	ANTICIPATED POSITIVE(S)	TEST OUTCOME	DETECTION WINDOW
ATORVASTATIN (LIPITOR)	✓	Atorvastatin	Negative	Unknown (Plasma Half-Life: 14 hrs)
ATORVASTATIN (LIPITOR)	✓	Atorvastatin Lactone	Negative	Unknown (Plasma Half-Life: 14 hrs)

INCONSISTENT RESULTS - ANALYTE DETECTED BUT NO CORESPONDING PRESCRIPTION REPORTED

REPORTED PRESCRIPTION	FLAG	ILLICIT	MEASURED RESULT	CUTOFF	TEST OUTCOME	DETECTION WINDOW
Caffeine	✓	No	30.00	5.00	Positive	Unknown (Plasma Half-Life: 5-6 hrs)

SPECIMEN VALIDITY TESTING

REPORTED PRESCRIPTION	TEST OUTCOME	MEASURED RESULT	UNITS	REFERENCE RANGE	ADDITIONAL MEDICATIONS REPORTED BUT NOT TESTED FOR IN THIS REPORT
N/A	N/A	N/A	N/A	N/A	ASPIRIN, CALCIUM, CENTRUM SILVER, MOMETASONE FUROATE, OXYBUTYNIN CHLORIDE, VITAMIN E (Tocopherol)

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ADDITIONAL DETECTED ANALYTES




CAFFEINE (CAFCIT, ALERT)

Drug-Drug Interactions

No drug-drug interactions can be provided within the scope of this report at this time. Either no current medications were provided for the patient or no significant risk of drug-drug interaction is present for the patient's current medications. It is highly recommended to reanalyze the risk of drug-drug interaction if the patient is prescribed a new drug.

Unrecognized Medications: None

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
1. ANALGESICS / OPIATES						
Acetaminophen	Negative	0	50.00	ng/mL	No	Consistent 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
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
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

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Morphine	Negative	0	5.00	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
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
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
Propoxyphene	Negative	0	5.00	ng/mL	No	Consistent Result
Tapentadol	Negative	0	10.00	ng/mL	No	Consistent Result
Tramadol	Negative	0	5.00	ng/mL	No	Consistent Result

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2. BENZODIAZEPINES						
6-Hydroxybuspirone	Negative	0	1.00	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
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
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
Clonazepam	Negative	0	5.00	ng/mL	No	Consistent Result
7-Aminoclonazepam	Negative	0	10.00	ng/mL	No	Consistent Result
Alprazolam	Negative	0	5.00	ng/mL	No	Consistent Result
Alpha-hydroxyalprazolam	Negative	0	5.00	ng/mL	No	Consistent Result

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3. ANTI-PSYCHOTICS						
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
Brexipiprazole	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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4. ANTI-DEPRESSANTS / SSRI / SNRI / TCA						
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
Desmethoxyyongonin	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
5. DEPRESSANTS						
Eszopiclone	Negative	0	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	Negative	0	250.00	ng/mL	No	Consistent Result

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6. ANTI-CONVULSANTS						
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	Positive	48.00	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
7. MUSCLE RELAXANTS						
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
8. STIMULANTS / ADHD						
Atomoxetine	Negative	0	1.00	ng/mL	No	Consistent Result
Caffeine	Positive	30.00	5.00	ng/mL	No	Inconsistent Result
Ephedrine	Negative	0	5.00	ng/mL	No	Consistent 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
Amphetamine	Negative	0	10.00	ng/mL	No	Consistent Result
9. DECONGESTANTS						
Dextromethorphan	Negative	0	5.00	ng/mL	No	Consistent Result
Pseudoephedrine	Negative	0	5.00	ng/mL	No	Consistent Result
10. APPETITE STIMULANTS						
Phentermine	Negative	0	5.00	ng/mL	No	Consistent Result
THC (Marinol)	Negative	0	10.00	ng/mL	No	Consistent Result



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

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12. ILLICITS						
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
Benzoyllecgonine	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
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-COOH (Marijuana metabolite)	Negative	0	10.00	ng/mL	Yes	Consistent Result
Methamphetamine	Negative	0	5.00	ng/mL	Yes	Consistent Result

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13. BARBITURATES						
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
Phenobarbital	Negative	0	5.00	ng/mL	No	Consistent Result
Secobarbital	Negative	0	5.00	ng/mL	No	Consistent Result
14. DIRECT BIOMARKERS						
(-)-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
15. ANTI-INFLAMMATORY / NSAIDs						
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	Negative	0	50.00	ng/mL	No	Consistent 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	Negative	0	50.00	ng/mL	No	Consistent 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
16. ANTI-HISTAMINES						
Cetirizine	Negative	0	1.00	ng/mL	No	Consistent Result
Desloratadine	Negative	0	1.00	ng/mL	No	Consistent Result
Diphenhydramine	Negative	0	0.50	ng/mL	No	Consistent 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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17. CARDIOVASCULAR						
Acebutolol	Negative	0	1.00	ng/mL	No	Consistent Result
Alpha-hydroxymetoprolol	Negative	0	1.00	ng/mL	No	Consistent 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	Inconsistent Result
Atorvastatin Lactone	Negative	0	5.00	ng/mL	No	Inconsistent 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	50.00	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	Positive	50.00	50.00	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	50.00	ng/mL	No	Consistent Result
Losartan	Negative	0	0.50	ng/mL	No	Consistent Result
Metoprolol	Negative	0	1.00	ng/mL	No	Consistent 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	Positive	108.00	0.50	ng/mL	No	Consistent Result
Ranolazine	Negative	0	50.00	ng/mL	No	Consistent Result

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Patient :		Acc #:	AL-OF-13380
Patient #:	Birth:		
Doctor:	Age: 90 years	Collection Date:	05/14/2019 11:15
	Gender: Female	Received in Lab:	05/22/2019 11:15

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
18. ANTIMICROBIAL						
Itraconazole	Negative	0	5.00	ng/mL	No	Consistent Result
Nitrofurantoin	Negative	0	125.00	ng/mL	No	Consistent Result
19. GASTROINTESTINAL / DIETARY						
Biotin	Negative	0	1.00	ng/mL	No	Consistent Result
Famotidine	Negative	0	5.00	ng/mL	No	Consistent 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
20. ANTI-EMETIC						
Ondansetron	Negative	0	0.50	ng/mL	No	Consistent Result
Promethazine	Negative	0	1.00	ng/mL	No	Consistent Result
21. DIABETIC						
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	Negative	0	1.00	ng/mL	No	Consistent 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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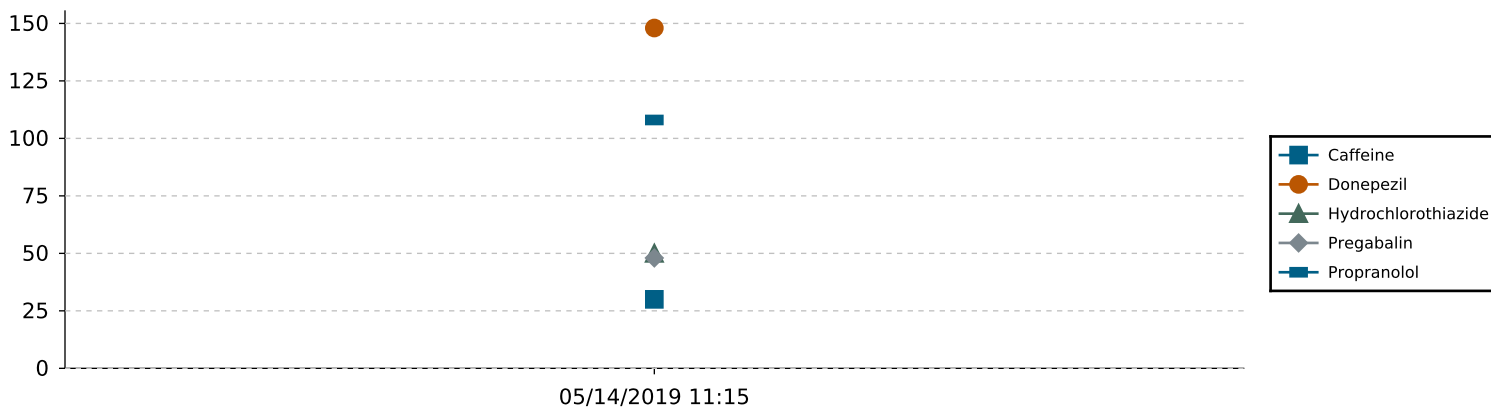
Test Name	Outcome	Measured Result	Cutoff	Units	Illicit?	Status
22. DIURETICS / INCONTINENCE						
Acetazolamide	Negative	0	5.00	ng/mL	No	Consistent Result
Alfuzosin	Negative	0	0.50	ng/mL	No	Consistent Result
Canrenone	Negative	0	1.00	ng/mL	No	Consistent Result
Chlorothiazide	Negative	0	50.00	ng/mL	No	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	5.00	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
23. PDE (Phosphodiesterase Inhibitors)						
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
24. CORTICOSTEROIDS / HORMONE THERAPY						
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
25. ANTI-NEOPLASTICS / CANCER THERAPY						
Methotrexate	Negative	0	1.00	ng/mL	No	Consistent Result
26. DEMENTIA (Parkinson's/Alzheimer's)						
Donepezil	Positive	148.00	1.00	ng/mL	No	Consistent Result
Rivastigmine	Negative	0	5.00	ng/mL	No	Consistent Result
Ropinirole	Negative	0	0.50	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 oral fluid (OF) or dried blood spot specimens (CleanAssure™ DBS) detection may be reduced (compound-specific). E.g. Buprenorphine (prescribed sublingually), Fentanyl, Hydromorphone, Morphine and Naloxone 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

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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.)

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

Reviewed By: _____

Date: _____