

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-DBS-10937
Patient #:	Birth:		
Doctor:	Age: 74 years	Collection Date:	03/27/2019 10:46
	Gender: Female	Received in Lab:	03/29/2019 10:46

Drug Adherence Assessment Report

CleanAssure™ (DRIED BLOOD SPOT): Detection Range see NOTES.

Prescribed Medications: ACETAMINOPHEN (TYLENOL, MAPAP), AMLODIPINE (NORVASC), ASPIRIN, ATENOLOL (TENORMIN), BACLOFEN (LIORESAL, GABLOFEN), CELECOXIB (CELEBREX), DIPHENHYDRAMINE (BENADRYL), FLUOXETINE (PROZAC, SARAFEM), FUROSEMIDE (LASIX), GABAPENTIN (NEURONTIN), HYDROCHLOROTHIAZIDE (MICROZIDE), HYDROCODONE, LEVOTHYROXINE (SYNTHROID, TIROSINT), METFORMIN (FORTAMET, GLUMETZA, GLUCOPHAGE, RIOMET, JANUMET), MULTIVITAMINS, OMEPRAZOLE (PRILOSEC, ZEGERID), POTASSIUM, PREDNISONE, SIMVASTATIN (ZOCOR), TRAMADOL (ULTRAM, CONZIP)

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

REPORTED PRESCRIPTION	FLAG	ANTICIPATED POSITIVE(S)	TEST OUTCOME	DETECTION WINDOW
ACETAMINOPHEN (TYLENOL, MAPAP)	✓	Acetaminophen	Positive	Plasma Half-Life: 2-3 hours
TRAMADOL (ULTRAM, CONZIP)	⚠	Tramadol	Positive	Plasma Half-Life: 4-8 hours
TRAMADOL (ULTRAM, CONZIP)	⚠	N-Desmethyl-Tramadol	Negative	Plasma Half-Life: 4-10 hours
TRAMADOL (ULTRAM, CONZIP)	⚠	O-Desmethyl-Tramadol	Negative	Plasma Half-Life: 4-10 hours
FLUOXETINE (PROZAC, SARAFEM)	⚠	Fluoxetine	Negative	Plasma Half-Life: 4 days
FLUOXETINE (PROZAC, SARAFEM)	⚠	Norfluoxetine	Positive	Plasma Half-Life: 4-16 days
GABAPENTIN (NEURONTIN)	⚠	Gabapentin	Positive	Plasma Half-Life: 5-7 hours
BACLOFEN (LIORESAL, GABLOFEN)	✓	Baclofen	Positive	Plasma Half-Life: 3-4 hrs
CELECOXIB (CELEBREX)	⚠	Celecoxib	Positive	Plasma Half-Life: 8-12 hours
DIPHENHYDRAMINE (BENADRYL)	✓	Diphenhydramine	Positive	Plasma Half-Life: 8-10 hours
AMLODIPINE (NORVASC)	⊗	Amlodipine	Positive	Plasma Half-Life: 30-50 hours
ATENOLOL (TENORMIN)	✓	Atenolol	Positive	Plasma Half-Life: 6-7 hours
HYDROCHLOROTHIAZIDE (MICROZIDE)	✓	Hydrochlorothiazide	Positive	Plasma Half-Life: 6-15 hours
OMEPRAZOLE (PRILOSEC, ZEGERID)	✓	Omeprazole	Positive	Plasma Half-Life: 1 hour
METFORMIN (FORTAMET, GLUMETZA, GLUCOPHAGE, RIOMET, JANUMET)	✓	Metformin	Positive	Plasma Half-Life: 6-7 hours
LEVOTHYROXINE (SYNTHROID, TIROSINT)	✓	Levothyroxine	Positive	Plasma Half-Life: 6-7 Days
OMEPRAZOLE (PRILOSEC, ZEGERID)	✓	Omeprazole Acid	Negative	Plasma Half-Life: 1 hour

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

REPORTED PRESCRIPTION	FLAG	ANTICIPATED POSITIVE(S)	TEST OUTCOME	DETECTION WINDOW
HYDROCODONE	⚠	Hydrocodone	Negative	Plasma Half-Life: 3.5-9 hours
HYDROCODONE	⚠	Norhydrocodone	Negative	Plasma Half-Life: 3.5-9 hours
HYDROCODONE	⚠	Hydromorphone	Negative	Plasma Half-Life: 1.5-4 hours

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-DBS-10937
Patient #:	Birth:		
Doctor:	Age: 74 years	Collection Date:	03/27/2019 10:46
	Gender: Female	Received in Lab:	03/29/2019 10:46

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

REPORTED PRESCRIPTION	FLAG	ANTICIPATED POSITIVE(S)	TEST OUTCOME	DETECTION WINDOW
SIMVASTATIN (ZOCOR)	⊗	Simvastatin	Negative	Plasma Half-Life: 2 hours
FUROSEMIDE (LASIX)	⚠	Furosemide	Negative	Plasma Half-Life: 4-10 hours
PREDNISONONE	⚠	Prednisolone	Negative	Plasma Half-Life: 3-4 hours

INCONSISTENT RESULTS - ANALYTE DETECTED BUT NO CORESPONDING PRESCRIPTION REPORTED

REPORTED PRESCRIPTION	FLAG	ILLICIT	MEASURED RESULT	CUTOFF	TEST OUTCOME	DETECTION WINDOW
Diclofenac	⚠	No	16.00	0.50	Positive	Plasma Half-Life: 1-2 hours
Caffeine	✓	No	2932.00	1.00	Positive	Plasma Half-Life: 5-6 hours

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, MULTIVITAMINS, POTASSIUM

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-DBS-10937
Patient #:	Birth:		
Doctor:	Age: 74 years	Collection Date:	03/27/2019 10:46
	Gender: Female	Received in Lab:	03/29/2019 10:46

ADDITIONAL DETECTED ANALYTES

CAFFEINE (CAFCIT, ALERT), DICLOFENAC (CATAFLAM, SOLARAZE, VOLTAREN), ESOMEPRAZOLE (NEXIUM)

Drug-Drug Interactions

⊗ AMLODIPINE (NORVASC) & SIMVASTATIN (ZOCOR) SERIOUS

Coadministration with amlodipine may significantly increase the plasma concentrations of simvastatin and its active metabolite, simvastatin acid, and potentiate the risk of statin-induced myopathy. The proposed mechanism is amlodipine inhibition of simvastatin metabolism via intestinal and hepatic CYP450 3A4. When a single 80 mg dose of simvastatin was administered on day 10 of amlodipine given at a dosage of 10 mg once daily, simvastatin peak plasma concentration (Cmax) and systemic exposure (AUC) increased by an average of 1.5- and 1.8-fold, respectively, while simvastatin acid Cmax and AUC increased by an average of 1.6-fold each. High levels of statin or HMG-CoA reductase inhibitory activity in plasma is associated with an increased risk of musculoskeletal toxicity. (1)

1.) "Product Information. Zocor (simvastatin)." Merck & Co, Inc, West Point, PA.

⚠️ ASPIRIN & CELECOXIB (CELEBREX) MODERATE

The antiplatelet and cardioprotective effect of aspirin may be decreased with the concurrent use of some NSAIDs.

⚠️ ASPIRIN & PREDNISONE MODERATE

Decreased serum salicylate levels with reduced therapeutic response. Salicylate intoxication may occur when corticosteroid dosage is decreased in patients taking large doses of salicylates. Gastrointestinal ulceration may be increased as well.

⚠️ DICLOFENAC (CATAFLAM, SOLARAZE, VOLTAREN) & FLUOXETINE (PROZAC, SARA MODERATE

Concurrent use of a selective serotonin reuptake inhibitor(1-7,13) or a serotonin-norepinephrine reuptake inhibitor(8-10) and a NSAID may result in bleeding.

⚠️ DICLOFENAC (CATAFLAM, SOLARAZE, VOLTAREN) & FUROSEMIDE (LASIX) MODERATE

The pharmacological effects of loop diuretics may be decreased reducing their antihypertensive and diuretic actions.

⚠️ DICLOFENAC (CATAFLAM, SOLARAZE, VOLTAREN) & PREDNISONE MODERATE

Concurrent use of NSAIDs and corticosteroids may increase the incidence and/or severity of GI irritation or ulceration.

⚠️ FLUOXETINE (PROZAC, SARAFEM) & ASPIRIN MODERATE

Concurrent use of a selective serotonin reuptake inhibitor(1-7,13) or a serotonin-norepinephrine reuptake inhibitor(8-10) and a NSAID may result in bleeding.

⚠️ FLUOXETINE (PROZAC, SARAFEM) & CELECOXIB (CELEBREX) MODERATE

Concurrent use of a selective serotonin reuptake inhibitor(1-7,13) or a serotonin-norepinephrine reuptake inhibitor(8-10) and a NSAID may result in bleeding.

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-DBS-10937
Patient #:	Birth:		
Doctor:	Age: 74 years	Collection Date:	03/27/2019 10:46
	Gender: Female	Received in Lab:	03/29/2019 10:46

! FLUOXETINE (PROZAC, SARAFEM) & HYDROCODONE MODERATE

The concurrent administration of benzhydrocodone, hydrocodone or oxycodone and a strong inhibitor of CYP2D6 may result in decreased efficacy of hydrocodone or oxycodone. Parent and metabolite concentrations of hydrocodone or oxycodone may be altered.(2)

! FLUOXETINE (PROZAC, SARAFEM) & 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)

! FUROSEMIDE (LASIX) & CELECOXIB (CELEBREX) MODERATE

The pharmacological effects of loop diuretics may be decreased reducing their antihypertensive and diuretic actions.




! GABAPENTIN (NEURONTIN) & HYDROCODONE MODERATE

Central nervous system- and/or respiratory-depressant effects may be additively or synergistically increased in patients taking multiple drugs that cause these effects, especially in elderly or debilitated patients.

! PREDNISONE & CELECOXIB (CELEBREX) MODERATE

Concurrent use of NSAIDs and corticosteroids may increase the incidence and/or severity of GI irritation or ulceration.

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	Positive	71.00	0.50	ng/mL	No	Consistent Result
Buprenorphine	Negative	0	0.50	ng/mL	No	Consistent Result

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-DBS-10937
Patient #:	Birth:		
Doctor:	Age: 74 years	Collection Date:	03/27/2019 10:46
	Gender: Female	Received in Lab:	03/29/2019 10:46

Test Name	Outcome	Measured Result	Cutoff	Units	Illicit?	Status
Butorphanol	Negative	0	0.50	ng/mL	No	Consistent Result
Codeine	Negative	0	0.50	ng/mL	No	Consistent Result
Dihydrocodeine	Negative	0	0.50	ng/mL	No	Consistent Result
EDDP	Negative	0	0.50	ng/mL	No	Consistent Result
Fentanyl	Negative	0	0.50	ng/mL	No	Consistent Result
Hydrocodone	Negative	0	0.50	ng/mL	No	Inconsistent Result
Hydromorphone	Negative	0	0.50	ng/mL	No	Inconsistent Result
Ketamine	Negative	0	0.50	ng/mL	No	Consistent Result
Levorphanol	Negative	0	0.50	ng/mL	No	Consistent Result
Meperidine	Negative	0	0.50	ng/mL	No	Consistent Result
Methadone	Negative	0	0.50	ng/mL	No	Consistent Result
Morphine	Negative	0	0.50	ng/mL	No	Consistent Result
N-Desmethyl-Tramadol	Negative	0	0.5	ng/mL	No	Consistent Result
Norbuprenorphine	Negative	0	0.50	ng/mL	No	Consistent Result
Norcodeine	Negative	0	1.00	ng/mL	No	Consistent Result
Norfentanyl	Negative	0	0.50	ng/mL	No	Consistent Result
Norhydrocodone	Negative	0	0.50	ng/mL	No	Inconsistent Result
Norketamine	Negative	0	0.50	ng/mL	No	Consistent Result
Noroxycodone	Negative	0	0.50	ng/mL	No	Consistent Result
Norpropoxyphene	Negative	0	0.50	ng/mL	No	Consistent Result
O-Desmethyl-Tramadol	Negative	0	0.50	ng/mL	No	Consistent Result
Oxycodone	Negative	0	0.50	ng/mL	No	Consistent Result
Oxymorphone	Negative	0	0.50	ng/mL	No	Consistent Result
Propoxyphene	Negative	0	0.50	ng/mL	No	Consistent Result
Tapentadol	Negative	0	0.50	ng/mL	No	Consistent Result
Tramadol	Positive	48.00	0.50	ng/mL	No	Consistent Result

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-DBS-10937
Patient #:	Birth:		
Doctor:	Age: 74 years	Collection Date:	03/27/2019 10:46
	Gender: Female	Received in Lab:	03/29/2019 10:46

Test Name	Outcome	Measured Result	Cutoff	Units	Illicit?	Status
2. BENZODIAZEPINES						
6-Hydroxybuspirone	Negative	0	0.50	ng/mL	No	Consistent Result
7-Aminoclonazepam	Negative	0	0.50	ng/mL	No	Consistent Result
Alpha-hydroxyalprazolam	Negative	0	0.50	ng/mL	No	Consistent Result
Alpha-Hydroxymidazolam	Negative	0	0.50	ng/mL	No	Consistent Result
Alpha-Hydroxytriazolam	Negative	0	0.50	ng/mL	No	Consistent Result
Alprazolam	Negative	0	0.50	ng/mL	No	Consistent Result
Buspirone	Negative	0	0.50	ng/mL	No	Consistent Result
Chlordiazepoxide	Negative	0	0.50	ng/mL	No	Consistent Result
Clobazam	Negative	0	0.50	ng/mL	No	Consistent Result
Clonazepam	Negative	0	0.50	ng/mL	No	Consistent Result
Desalkylflurazepam	Negative	0	0.50	ng/mL	No	Consistent Result
Diazepam	Negative	0	0.50	ng/mL	No	Consistent Result
Estazolam	Negative	0	0.50	ng/mL	No	Consistent Result
Flunitrazepam	Negative	0	0.50	ng/mL	No	Consistent Result
Flurazepam	Negative	0	0.50	ng/mL	No	Consistent Result
Lorazepam	Negative	0	0.50	ng/mL	No	Consistent Result
Midazolam	Negative	0	0.50	ng/mL	No	Consistent Result
N-Desmethyl-Flunitrazepam	Negative	0	0.50	ng/mL	No	Consistent Result
Norchlordiazepoxide	Negative	0	0.50	ng/mL	No	Consistent Result
Nordiazepam	Negative	0	0.50	ng/mL	No	Consistent Result
Oxazepam	Negative	0	5.00	ng/mL	No	Consistent Result
Prazepam	Negative	0	0.50	ng/mL	No	Consistent Result
Temazepam	Negative	0	0.50	ng/mL	No	Consistent Result
Triazolam	Negative	0	0.50	ng/mL	No	Consistent Result

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-DBS-10937
Patient #:	Birth:		
Doctor:	Age: 74 years	Collection Date:	03/27/2019 10:46
	Gender: Female	Received in Lab:	03/29/2019 10:46

Test Name	Outcome	Measured Result	Cutoff	Units	Illicit?	Status
3. ANTI-PSYCHOTICS						
9-Hydroxyrisperidone	Negative	0	0.50	ng/mL	No	Consistent Result
Aripiprazole	Negative	0	0.50	ng/mL	No	Consistent Result
Asenapine	Negative	0	0.50	ng/mL	No	Consistent Result
Brexipiprazole	Negative	0	0.50	ng/mL	No	Consistent Result
Chlorpromazine	Negative	0	1.00	ng/mL	No	Consistent Result
Clozapine	Negative	0	0.50	ng/mL	No	Consistent Result
Clozapine_N_oxide	Negative	0	0.50	ng/mL	No	Consistent Result
Dehydro-Aripiprazole	Negative	0	1.00	ng/mL	No	Consistent Result
Fluphenazine	Negative	0	0.50	ng/mL	No	Consistent Result
Haloperidol	Negative	0	0.50	ng/mL	No	Consistent Result
Iloperidone	Negative	0	0.50	ng/mL	No	Consistent Result
Lurasidone	Negative	0	0.50	ng/mL	No	Consistent Result
Norquetiapine	Negative	0	0.50	ng/mL	No	Consistent Result
Olanzapine	Negative	0	5.00	ng/mL	No	Consistent Result
Perphenazine	Negative	0	5.00	ng/mL	No	Consistent Result
Quetiapine	Negative	0	0.50	ng/mL	No	Consistent Result
Risperidone	Negative	0	0.50	ng/mL	No	Consistent Result
Thioridazine	Negative	0	0.50	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

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-DBS-10937
Patient #:	Birth:		
Doctor:	Age: 74 years	Collection Date:	03/27/2019 10:46
	Gender: Female	Received in Lab:	03/29/2019 10:46

Test Name	Outcome	Measured Result	Cutoff	Units	Illicit?	Status
4. ANTI-DEPRESSANTS / SSRI / SNRI / TCA						
Amitriptyline	Negative	0	0.50	ng/mL	No	Consistent Result
Amoxapine	Negative	0	0.50	ng/mL	No	Consistent Result
Bupropion	Negative	0	0.50	ng/mL	No	Consistent Result
Citalopram	Negative	0	0.50	ng/mL	No	Consistent Result
Clomipramine	Negative	0	0.50	ng/mL	No	Consistent Result
D-L-Kavain	Negative	0	0.50	ng/mL	No	Consistent Result
Desipramine	Negative	0	0.50	ng/mL	No	Consistent Result
Desmethoxyyongonin	Negative	0	0.50	ng/mL	No	Consistent Result
Dihydrokavain	Negative	0	1.00	ng/mL	No	Consistent Result
Dihydromethysticin	Negative	0	0.50	ng/mL	No	Consistent Result
Doxepin	Negative	0	0.50	ng/mL	No	Consistent Result
Duloxetine	Negative	0	0.50	ng/mL	No	Consistent Result
Fluoxetine	Negative	0	0.50	ng/mL	No	Consistent Result
Fluvoxamine	Negative	0	0.50	ng/mL	No	Consistent Result
Hydroxybupropion	Negative	0	0.50	ng/mL	No	Consistent Result
Imipramine	Negative	0	0.50	ng/mL	No	Consistent Result
Methysticin	Negative	0	0.50	ng/mL	No	Consistent Result
Milnacipran	Negative	0	0.50	ng/mL	No	Consistent Result
Mirtazapine	Negative	0	0.50	ng/mL	No	Consistent Result
N-Desmethyl-Clomipramine	Negative	0	0.50	ng/mL	No	Consistent Result
Nordoxepin	Negative	0	0.50	ng/mL	No	Consistent Result
Norfluoxetine	Positive	55.00	0.50	ng/mL	No	Consistent Result
Normirtazapine	Negative	0	0.50	ng/mL	No	Consistent Result
Nortriptyline	Negative	0	0.50	ng/mL	No	Consistent Result
O-Desmethyl-Venlafaxine	Negative	0	0.50	ng/mL	No	Consistent Result
Paroxetine	Negative	0	0.50	ng/mL	No	Consistent Result
Sertraline	Negative	0	0.50	ng/mL	No	Consistent Result
Trazodone	Negative	0	0.50	ng/mL	No	Consistent Result
Venlafaxine	Negative	0	0.50	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	0.50	ng/mL	No	Consistent Result
5. DEPRESSANTS						
Eszopiclone	Negative	0	0.50	ng/mL	No	Consistent Result
Zaleplon	Negative	0	0.50	ng/mL	No	Consistent Result
Zolpidem	Negative	0	0.50	ng/mL	No	Consistent Result
Zopiclone-N-Oxide	Negative	0	50.00	ng/mL	No	Consistent Result

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-DBS-10937
Patient #:	Birth:		
Doctor:	Age: 74 years	Collection Date:	03/27/2019 10:46
	Gender: Female	Received in Lab:	03/29/2019 10:46

Test Name	Outcome	Measured Result	Cutoff	Units	Illicit?	Status
6. ANTI-CONVULSANTS						
10-11-Dihydro-10-Hydroxycarbamazepine	Negative	0	0.50	ng/mL	No	Consistent Result
Carbamazepine	Negative	0	0.50	ng/mL	No	Consistent Result
Gabapentin	Positive	>5000.00	0.50	ng/mL	No	Consistent Result
Lamotrigine	Negative	0	0.50	ng/mL	No	Consistent Result
Levetiracetam	Negative	0	0.50	ng/mL	No	Consistent Result
Licarbazepine	Negative	0	0.50	ng/mL	No	Consistent Result
Oxcarbazepine	Negative	0	0.50	ng/mL	No	Consistent Result
Phenytoin	Negative	0	0.50	ng/mL	No	Consistent Result
Pregabalin	Negative	0	50.00	ng/mL	No	Consistent Result
Primidone	Negative	0	0.50	ng/mL	No	Consistent Result
Tiagabine	Negative	0	0.50	ng/mL	No	Consistent Result
Topiramate	Negative	0	0.50	ng/mL	No	Consistent Result
Valproic Acid	Negative	0	50.00	ng/mL	No	Consistent Result
Zonisamide	Negative	0	1.00	ng/mL	No	Consistent Result
7. MUSCLE RELAXANTS						
Baclofen	Positive	0.80	0.50	ng/mL	No	Consistent Result
Carisoprodol	Negative	0	0.50	ng/mL	No	Consistent Result
Cyclobenzaprine	Negative	0	0.50	ng/mL	No	Consistent Result
Meprobamate	Negative	0	0.50	ng/mL	No	Consistent Result
Metaxalone	Negative	0	0.50	ng/mL	No	Consistent Result
Methocarbamol	Negative	0	1.00	ng/mL	No	Consistent Result
8. STIMULANTS / ADHD						
Amphetamine	Negative	0	0.50	ng/mL	No	Consistent Result
Atomoxetine	Negative	0	0.50	ng/mL	No	Consistent Result
Caffeine	Positive	2932.00	1.00	ng/mL	No	Inconsistent Result
Ephedrine	Negative	0	0.50	ng/mL	No	Consistent Result
Guanfacine	Negative	0	0.50	ng/mL	No	Consistent Result
Lisdexamfetamine	Negative	0	0.50	ng/mL	No	Consistent Result
Methylphenidate	Negative	0	0.50	ng/mL	No	Consistent Result
Ritalinic Acid	Negative	0	0.50	ng/mL	No	Consistent Result
9. DECONGESTANTS						
Dextromethorphan	Negative	0	0.50	ng/mL	No	Consistent Result
Pseudoephedrine	Negative	0	0.50	ng/mL	No	Consistent Result
10. APPETITE STIMULANTS						
Marinol	Negative	0	1.00	ng/mL	No	Consistent Result
Phentermine	Negative	0	0.50	ng/mL	No	Consistent Result



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-DBS-10937
Patient #: Birth:
Doctor: Age: 74 years Collection Date: 03/27/2019 10:46
Gender: Female Received in Lab: 03/29/2019 10:46

Test Name	Outcome	Measured Result	Cutoff	Units	Illicit?	Status
11. ANTIDOTES						
Naloxone	Negative	0	0.50	ng/mL	No	Consistent Result
Naltrexone	Negative	0	0.50	ng/mL	No	Consistent Result

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-DBS-10937
Patient #:	Birth:		
Doctor:	Age: 74 years	Collection Date:	03/27/2019 10:46
	Gender: Female	Received in Lab:	03/29/2019 10:46

Test Name	Outcome	Measured Result	Cutoff	Units	Illicit?	Status
12. ILLICITS						
5-Fluoro-NPB-22	Negative	0	0.50	ng/mL	Yes	Consistent Result
5-MeO-DMT	Negative	0	0.50	ng/mL	Yes	Consistent Result
6-MAM (heroin metabolite)	Negative	0	0.50	ng/mL	Yes	Consistent Result
7-HydroxyMitragynine (Kratom)	Negative	0	0.50	ng/mL	Yes	Consistent Result
AB-FUBINACA	Negative	0	0.50	ng/mL	Yes	Consistent Result
Acetyl-Fentanyl	Negative	0	0.50	ng/mL	Yes	Consistent Result
Alpha-PVP	Negative	0	0.50	ng/mL	Yes	Consistent Result
AM2201 (Spice Cannabinoid)	Negative	0	50.00	ng/mL	Yes	Consistent Result
Benzoyllecgonine	Negative	0	0.50	ng/mL	Yes	Consistent Result
Carfentanil	Negative	0	0.50	ng/mL	Yes	Consistent Result
Cocaine	Negative	0	0.50	ng/mL	Yes	Consistent Result
Didesmethyl-U-47700	Negative	0	0.50	ng/mL	Yes	Consistent Result
DMT	Negative	0	0.50	ng/mL	Yes	Consistent Result
FDU-PB-22	Negative	0	0.50	ng/mL	Yes	Consistent Result
HU-210 (Spice Cannabinoid)	Negative	0	50.00	ng/mL	Yes	Consistent Result
JWH-019 (Spice Cannabinoid)	Negative	0	0.50	ng/mL	Yes	Consistent Result
JWH-073 4-Hydroxybutyl (Spice Cannabinoid)	Negative	0	0.50	ng/mL	Yes	Consistent Result
JWH-081 (Spice Cannabinoid)	Negative	0	0.50	ng/mL	Yes	Consistent Result
JWH-122 (Spice Cannabinoid)	Negative	0	0.50	ng/mL	Yes	Consistent Result
JWH-18-5-pentanoic acid (Spice Cannabinoid)	Negative	0	0.50	ng/mL	Yes	Consistent Result
JWH-18-5-pentanyl (Spice Cannabinoid)	Negative	0	0.50	ng/mL	Yes	Consistent Result
JWH-250-5OH-pentanyl (Spice Cannabinoid)	Negative	0	0.50	ng/mL	Yes	Consistent Result
MDA	Negative	0	0.50	ng/mL	Yes	Consistent Result
MDEA	Negative	0	0.50	ng/mL	Yes	Consistent Result
MDMA	Negative	0	0.50	ng/mL	Yes	Consistent Result
MDPV	Negative	0	0.50	ng/mL	Yes	Consistent Result
Mephedrone	Negative	0	0.50	ng/mL	Yes	Consistent Result
Methamphetamine	Negative	0	0.50	ng/mL	Yes	Consistent Result
Methylone	Negative	0	0.50	ng/mL	Yes	Consistent Result
Mitragynine (Kratom)	Negative	0	5.00	ng/mL	Yes	Consistent Result
MMB-CHMICA	Negative	0	0.50	ng/mL	Yes	Consistent Result
N-Desmethyl-U-47700	Negative	0	0.50	ng/mL	Yes	Consistent Result
Normephedrone	Negative	0	0.50	ng/mL	Yes	Consistent Result
PCP	Negative	0	0.50	ng/mL	Yes	Consistent Result
THC (Marijuana metabolite)	Negative	0	0.50	ng/mL	Yes	Consistent Result

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-DBS-10937
 Patient #: Birth:
 Doctor: Age: 74 years Collection Date: 03/27/2019 10:46
 Gender: Female Received in Lab: 03/29/2019 10:46

Test Name	Outcome	Measured Result	Cutoff	Units	Illicit?	Status
13. BARBITURATES						
Amobarbital	Negative	0	0.50	ng/mL	No	Consistent Result
Butabarbital	Negative	0	1.00	ng/mL	No	Consistent Result
Butalbital	Negative	0	0.50	ng/mL	No	Consistent Result
Pentobarbital	Negative	0	0.50	ng/mL	No	Consistent Result
Secobarbital	Negative	0	0.50	ng/mL	No	Consistent Result
14. DIRECT BIOMARKERS						
(-)-Cotinine	Negative	0	0.50	ng/mL	No	Consistent Result
Ethyl Glucuronide (Ethanol)	Negative	0	0.50	ng/mL	No	Consistent Result
Ethyl Sulfate (Ethanol)	Negative	0	5.00	ng/mL	No	Consistent Result
15. ANTI-INFLAMMATORY / NSAIDs						
Celecoxib	Positive	429.00	5.00	ng/mL	No	Consistent Result
Chlorpheniramine	Negative	0	0.50	ng/mL	No	Consistent Result
Colchicine	Negative	0	50.00	ng/mL	No	Consistent Result
Diclofenac	Positive	16.00	0.50	ng/mL	No	Inconsistent Result
Etodolac	Negative	0	0.50	ng/mL	No	Consistent Result
Febuxostat	Negative	0	0.50	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	0.50	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	1.00	ng/mL	No	Consistent Result
Oxipurinol	Negative	0	50.00	ng/mL	No	Consistent Result
Piroxicam	Negative	0	0.50	ng/mL	No	Consistent Result
Sumatriptan	Negative	0	0.50	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	0.50	ng/mL	No	Consistent Result
Diphenhydramine	Positive	13.00	0.50	ng/mL	No	Consistent Result
Fexofenadine	Negative	0	1.00	ng/mL	No	Consistent Result
Hydroxyzine	Negative	0	0.50	ng/mL	No	Consistent Result
Loratadine	Negative	0	0.50	ng/mL	No	Consistent Result
Montelukast	Negative	0	50.00	ng/mL	No	Consistent Result

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-DBS-10937
 Patient #: Birth:
 Doctor: Age: 74 years Collection Date: 03/27/2019 10:46
Gender: Female Received in Lab: 03/29/2019 10:46

Test Name	Outcome	Measured Result	Cutoff	Units	Illicit?	Status
17. CARDIOVASCULAR						
Acebutolol	Negative	0	0.50	ng/mL	No	Consistent Result
Alpha-hydroxymetoprolol	Negative	0	0.50	ng/mL	No	Consistent Result
Amiodarone	Negative	0	0.50	ng/mL	No	Consistent Result
Amlodipine	Positive	8.00	0.50	ng/mL	No	Consistent Result
Apixaban	Negative	0	50.00	ng/mL	No	Consistent Result
Atenolol	Positive	207.00	0.50	ng/mL	No	Consistent Result
Atorvastatin	Negative	0	1.00	ng/mL	No	Consistent Result
Atorvastatin Lactone	Negative	0	50.00	ng/mL	No	Consistent Result
Benazepril	Negative	0	0.50	ng/mL	No	Consistent Result
Bisoprolol	Negative	0	0.50	ng/mL	No	Consistent Result
Candesartan	Negative	0	0.50	ng/mL	No	Consistent Result
Candesartan Cilexetil	Negative	0	0.50	ng/mL	No	Consistent Result
Carvedilol	Negative	0	1.00	ng/mL	No	Consistent Result
Cilostazol	Negative	0	0.50	ng/mL	No	Consistent Result
Clopidogrel	Negative	0	0.50	ng/mL	No	Consistent Result
Dabigatran	Negative	0	0.50	ng/mL	No	Consistent Result
Diltiazem	Negative	0	5.00	ng/mL	No	Consistent Result
Dipyridamole	Negative	0	0.50	ng/mL	No	Consistent Result
Dronedarone	Negative	0	0.50	ng/mL	No	Consistent Result
Eletriptan	Negative	0	0.50	ng/mL	No	Consistent Result
Enalaprilat	Negative	0	0.50	ng/mL	No	Consistent Result
Ezetimibe	Negative	0	0.50	ng/mL	No	Consistent Result
Fenofibric Acid	Negative	0	0.50	ng/mL	No	Consistent Result
Flecainide	Negative	0	0.50	ng/mL	No	Consistent Result
Gemfibrozil	Negative	0	5.00	ng/mL	No	Consistent Result
Hydrochlorothiazide	Positive	17.00	5.00	ng/mL	No	Consistent Result
Irbesartan	Negative	0	0.50	ng/mL	No	Consistent Result
Labetalol	Negative	0	0.50	ng/mL	No	Consistent Result
Lisinopril	Negative	0	5.00	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	5.00	ng/mL	No	Consistent Result
Nadolol	Negative	0	0.50	ng/mL	No	Consistent Result
Nifedipine	Negative	0	0.50	ng/mL	No	Consistent Result
Olmesartan Acid	Negative	0	0.50	ng/mL	No	Consistent Result
Pentoxifylline	Negative	0	0.50	ng/mL	No	Consistent Result
Propranolol	Negative	0	0.50	ng/mL	No	Consistent Result
Ranolazine	Negative	0	125.00	ng/mL	No	Consistent Result

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-DBS-10937
Patient #:	Birth:		
Doctor:	Age: 74 years	Collection Date:	03/27/2019 10:46
	Gender: Female	Received in Lab:	03/29/2019 10:46

Test Name	Outcome	Measured Result	Cutoff	Units	Illicit?	Status
Rivaroxaban	Negative	0	0.50	ng/mL	No	Consistent Result
Simvastatin	Negative	0	0.50	ng/mL	No	Inconsistent Result
Telmisartan	Negative	0	1.00	ng/mL	No	Consistent Result
Ticagrelor	Negative	0	0.50	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	0.50	ng/mL	No	Consistent Result
18. ANTIMICROBIAL						
Itraconazole	Negative	0	50.00	ng/mL	No	Consistent Result
Nitrofurantoin	Negative	0	5.00	ng/mL	No	Consistent Result
19. GASTROINTESTINAL / DIETARY						
Biotin	Negative	0	0.50	ng/mL	No	Consistent Result
Famotidine	Negative	0	0.50	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	Positive	1.00	1.00	ng/mL	No	Consistent Result
Omeprazole Acid	Negative	0	5.00	ng/mL	No	Consistent Result
Pantoprazole	Negative	0	5.00	ng/mL	No	Consistent Result
Ranitidine	Negative	0	0.50	ng/mL	No	Consistent Result
20. ANTI-EMETIC						
Ondansetron	Negative	0	0.50	ng/mL	No	Consistent Result
Promethazine	Negative	0	0.50	ng/mL	No	Consistent Result
21. DIABETIC						
Glimepiride	Negative	0	50.00	ng/mL	No	Consistent Result
Glipizide	Negative	0	5.00	ng/mL	No	Consistent Result
Glyburide	Negative	0	125.00	ng/mL	No	Consistent Result
Linagliptin	Negative	0	0.50	ng/mL	No	Consistent Result
Metformin	Positive	163.00	0.50	ng/mL	No	Consistent Result
Nateglinide	Negative	0	0.50	ng/mL	No	Consistent Result
Pioglitazone	Negative	0	0.50	ng/mL	No	Consistent Result
Repaglinide	Negative	0	50.00	ng/mL	No	Consistent Result
Rosiglitazone	Negative	0	0.50	ng/mL	No	Consistent Result
Saxagliptin	Negative	0	0.50	ng/mL	No	Consistent Result
Sitagliptin	Negative	0	50.00	ng/mL	No	Consistent Result

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

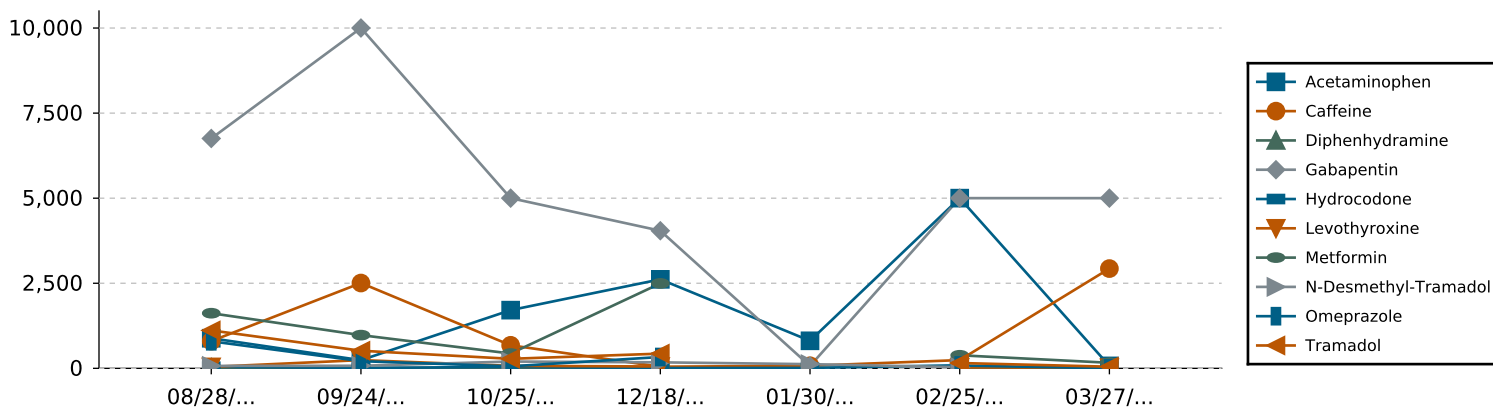
CLIA# 05D2027247 - Director: David J. Smith, MD

Patient :		Acc #:	AL-DBS-10937
Patient #:	Birth:		
Doctor:	Age: 74 years	Collection Date:	03/27/2019 10:46
	Gender: Female	Received in Lab:	03/29/2019 10:46

Test Name	Outcome	Measured Result	Cutoff	Units	Illicit?	Status
22. DIURETICS / INCONTINENCE						
Acetazolamide	Negative	0	0.50	ng/mL	No	Consistent Result
Alfuzosin	Negative	0	5.00	ng/mL	No	Consistent Result
Canrenone	Negative	0	1.00	ng/mL	No	Consistent Result
Chlorothiazide	Negative	0	5.00	ng/mL	No	Consistent Result
Darifenacin	Negative	0	0.50	ng/mL	No	Consistent Result
Doxazosin	Negative	0	5.00	ng/mL	No	Consistent Result
Furosemide	Negative	0	1.00	ng/mL	No	Inconsistent Result
Indapamide	Negative	0	0.50	ng/mL	No	Consistent Result
Solifenacin	Negative	0	0.50	ng/mL	No	Consistent Result
Terazosin	Negative	0	0.50	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	50.00	ng/mL	No	Consistent Result
Tadalafil	Negative	0	0.50	ng/mL	No	Consistent Result
Vardenafil	Negative	0	125.00	ng/mL	No	Consistent Result
24. CORTICOSTEROIDS / HORMONE THERAPY						
Budesonide	Negative	0	0.50	ng/mL	No	Consistent Result
Dexamethasone	Negative	0	0.50	ng/mL	No	Consistent Result
Finasteride	Negative	0	0.50	ng/mL	No	Consistent Result
Levothyroxine	Positive	18.00	0.50	ng/mL	No	Consistent Result
Prednisolone	Negative	0	0.50	ng/mL	No	Inconsistent Result
Raloxifene	Negative	0	50.00	ng/mL	No	Consistent Result
25. ANTI-NEOPLASTICS / CANCER THERAPY						
Methotrexate	Negative	0	50.00	ng/mL	No	Consistent Result
26. DEMENTIA (Parkinson's/Alzheimer's)						
Donepezil	Negative	0	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

Patient :		Acc #:	AL-DBS-10937
Patient #:	Birth:		
Doctor:	Age: 74 years	Collection Date:	03/27/2019 10:46
	Gender: Female	Received in Lab:	03/29/2019 10:46

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.

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-DBS-10937
Patient #:	Birth:		
Doctor:	Age: 74 years	Collection Date:	03/27/2019 10:46
	Gender: Female	Received in Lab:	03/29/2019 10:46

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.

Notes: *Specimen collected by CleanAssure™ Dried Blood Spot Mitra™ Microsampling. This procedure is to determine the presence and concentration of prescription/non-prescription drugs from dried blood spots collected using Mitra™ Microsampling devices by finger pricks. This method and associated validation is intended for patient compliance testing only (i.e. determination of the presence or absence and concentrations of prescribed and illicit drugs in dried blood spots) and is not validated for therapeutic drug monitoring (TDM) of drug plasma levels. Detection ranges may be reduced (compound-specific) versus urine toxicology test results. Mitra™ Microsampling devices improve patient comfort and increase operational efficiencies.*

Reviewed By: _____

Date: **04/01/2019 22:10** _____