

Patient : **DOE, JOHN** **Acc #:** 1131
 DOCTOR, TEST Birth: 01/01/2001
Age: 63 years Collection Date:
Received in Lab:

Drug Adherence Assessment Report

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

Prescribed Medications: ASPIRIN, BACLOFEN (LIORESAL, GABLOFEN), WARFARIN (COUMADIN), QUETIAPINE (SEROQUEL), OMEPRAZOLE (PRILOSEC, ZEGERID), TOLTERODINE (DETROL), FUROSEMIDE (LASIX), VITAMIN B1 (Thiamine), METOPROLOL (LOPRESSOR), FLUTICASONE (FLONASE), VITAMIN D2 (Ergocalciferol), CYCLOBENZAPRINE (FLEXERIL), PAROXETINE (PAXIL, PEXEVA)

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

REPORTED PRESCRIPTION	FLAG	ANTICIPATED POSITIVE(S)	TEST OUTCOME	DETECTION WINDOW
WARFARIN (COUMADIN)	⊗ ⚠	Warfarin	Positive	Plasma Half-Life: 20-60 hours
QUETIAPINE (SEROQUEL)	✓	Quetiapine	Negative	Plasma Half-Life: 6-7 hours
QUETIAPINE (SEROQUEL)	✓	Norquetiapine	Positive	Plasma Half-Life: 7-12 hours
FUROSEMIDE (LASIX)	✓	Furosemide	Positive	Plasma Half-Life: 4-10 hours
METOPROLOL (LOPRESSOR)	⚠	Metoprolol	Positive	Plasma Half-Life: 3-4 hours
METOPROLOL (LOPRESSOR)	⚠	Alpha-hydroxymetoprolol	Positive	Plasma Half-Life: 3-4 hours
PAROXETINE (PAXIL, PEXEVA)	⊗ ⚠	Paroxetine	Positive	Plasma Half-Life: 21 hours

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

REPORTED PRESCRIPTION	FLAG	ANTICIPATED POSITIVE(S)	TEST OUTCOME	DETECTION WINDOW
BACLOFEN (LIORESAL, GABLOFEN)	✓	Baclofen	Negative	Plasma Half-Life: 3-4 hrs
CYCLOBENZAPRINE (FLEXERIL)	⚠	Cyclobenzaprine	Negative	Plasma Half-Life: 8-37 hours
OMEPRAZOLE (PRILOSEC, ZEGERID)	✓	Omeprazole	Negative	Plasma Half-Life: 1 hour
OMEPRAZOLE (PRILOSEC, ZEGERID)	✓	Omeprazole Acid	Negative	Plasma Half-Life: 1 hour

INCONSISTENT RESULTS - ANALYTE DETECTED BUT NO CORESPONDING PRESCRIPTION REPORTED

REPORTED PRESCRIPTION	FLAG	ILLICIT	MEASURED RESULT	CUTOFF	TEST OUTCOME	DETECTION WINDOW
Ranitidine	✓	No	995.0	0.50	Positive	Plasma Half-Life: 2-3 hours
Acetaminophen	⚠	No	81.0	0.50	Positive	Plasma Half-Life: 2-3 hours
Caffeine	✓	No	11.0	0.50	Positive	Plasma Half-Life: 5-6 hours

SPECIMEN VALIDITY TESTING

REPORTED PRESCRIPTION	TEST OUTCOME	MEASURED RESULT	REFERENCE RANGE	ADDITIONAL MEDICATIONS REPORTED BUT NOT TESTED FOR IN THIS REPORT
N/A	N/A	N/A	N/A	ASPIRIN, FLUTICASONE (FLONASE), TOLTERODINE (DETROL), VITAMIN B1 (Thiamine), VITAMIN D2 (Ergocalciferol)

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ADDITIONAL DETECTED ANALYTES

ACETAMINOPHEN (TYLENOL, MAPAP), CAFFEINE (CAFCIT, ALERT), RANITIDINE (ZANTAC)

Drug-Drug Interactions

⊗ PAROXETINE (PAXIL, PEXEVA) & WARFARIN (COUMADIN) SERIOUS

Concurrent use of selected anticoagulants and SSRIs or SNRIs may increase the risk for bleeding.

⊗ WARFARIN (COUMADIN) & ASPIRIN SERIOUS

The concurrent use of anticoagulants and salicylates leads to blockade of two distinct coagulation pathways and may increase the risk for bleeding.

⚠ ACETAMINOPHEN (TYLENOL, MAPAP) & WARFARIN (COUMADIN) MODERATE

Concurrent use of routine acetaminophen, especially at dosages greater than 2 grams/day, and coumarin anticoagulants may result in elevated anticoagulant effects.

⚠ CYCLOBENZAPRINE (FLEXERIL) & PAROXETINE (PAXIL, PEXEVA) MODERATE

Concurrent administration of fluoxetine or paroxetine with selected cyclic agents which are metabolized by CYP2D6 or CYP2C19 may result in an increase in serum levels, toxicities(e.g. risk for seizures, severe anticholinergic effect), and/or clinical effects of the tricyclic agent or trazodone. Clomipramine, desipramine, imipramine, nortriptyline, and trimipramine are classified by CredibleMeds(3) as possible QT prolonging agents. Increased serum levels of these tricyclic agents may increase the risk for torsades de pointes. Concurrent administration of fluoxetine or paroxetine with clomipramine and perhaps with imipramine, cyclobenzaprine or high dose amitriptyline, may increase the risk for serotonin syndrome. Cyclic agents included in this monograph are amitriptyline (strengths <= 40 mg), amoxapine, clomipramine (strengths <= 25 mg), cyclobenzaprine (structurally similar to amitriptyline), doxepin (strengths <= 25 mg), imipramine (strengths <= 10 mg), melitracen, nortriptyline (strengths <= 30 mg), protriptyline, trazodone (strengths <= 75 mg), and trimipramine (strengths <= 25 mg).

⚠ METOPROLOL (LOPRESSOR) & PAROXETINE (PAXIL, PEXEVA) MODERATE


Concurrent use of CYP2D6 inhibitors may result in elevated levels of and toxicity from metoprolol.(1,2)


⚠ PAROXETINE (PAXIL, PEXEVA) & 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.

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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
1. CleanAssure NARCOTIC ANALGESICS / OPIATES						
Acetaminophen	Positive	81.00	0.50	ng/mL	No	Inconsistent Result
Buprenorphine	Negative	0	0.50	ng/mL	No	Consistent Result
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	Consistent Result
Hydromorphone	Negative	0	0.50	ng/mL	No	Consistent 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	0.50	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	Consistent 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



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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	Negative	0	0.50	ng/mL	No	Consistent Result
2. CleanAssure 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-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
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
Lorazepam	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	0.50	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



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3. CleanAssure 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	0.50	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	Positive	7.00	0.50	ng/mL	No	Consistent Result
Olanzapine	Negative	0	1.00	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	0.50	ng/mL	No	Consistent Result



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4. CleanAssure 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
Desmethoxyyngonin	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	Negative	0	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	Positive	35.00	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

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5. CleanAssure DEPRESSANTS						
Alpha-Hydroxymidazolam	Negative	0	0.50	ng/mL	No	Consistent Result
Desalkylflurazepam	Negative	0	0.50	ng/mL	No	Consistent Result
Eszopiclone	Negative	0	0.50	ng/mL	No	Consistent Result
Flurazepam	Negative	0	0.50	ng/mL	No	Consistent Result
Midazolam	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	1.00	ng/mL	No	Consistent Result
6. CleanAssure 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	Negative	0	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	0.50	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	0.50	ng/mL	No	Consistent Result
Zonisamide	Negative	0	1.00	ng/mL	No	Consistent Result
7. CleanAssure MUSCLE RELAXANTS						
Baclofen	Negative	0	0.50	ng/mL	No	Inconsistent Result
Carisoprodol	Negative	0	0.50	ng/mL	No	Consistent Result
Cyclobenzaprine	Negative	0	0.50	ng/mL	No	Inconsistent 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

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8. CleanAssure STIMULANTS / ADHD						
Amphetamine	Negative	0	0.50	ng/mL	No	Consistent Result
Atomoxetine	Negative	0	0.50	ng/mL	No	Consistent Result
Caffeine	Positive	11.00	0.50	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. CleanAssure DECONGESTANTS						
Dextromethorphan	Negative	0	0.50	ng/mL	No	Consistent Result
Pseudoephedrine	Negative	0	0.50	ng/mL	No	Consistent Result
10. CleanAssure APPETITE STIMULANTS						
Marinol	Negative	0	0.50	ng/mL	No	Consistent Result
Phentermine	Negative	0	0.50	ng/mL	No	Consistent Result
11. CleanAssure ANTIDOTES						
Naloxone	Negative	0	0.50	ng/mL	No	Consistent Result
Naltrexone	Negative	0	0.50	ng/mL	No	Consistent Result

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12. CleanAssure 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	0.50	ng/mL	Yes	Consistent Result
Benzoylcegonine	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	0.50	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
Methamphetamine	Negative	0	0.50	ng/mL	Yes	Consistent Result
Methylone	Negative	0	0.50	ng/mL	Yes	Consistent Result
Mitragynine (Kratom)	Negative	0	1.00	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
PCP	Negative	0	0.50	ng/mL	Yes	Consistent Result
THC (Marijuana metabolite)	Negative	0	0.50	ng/mL	Yes	Consistent Result



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13. CleanAssure BARBITURATES						
Amobarbital	Negative	0	0.50	ng/mL	No	Consistent Result
Butabarbital	Negative	0	0.50	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
Phenobarbital	Negative	0	0.50	ng/mL	No	Consistent Result
Secobarbital	Negative	0	0.50	ng/mL	No	Consistent Result
14. CleanAssure 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	0.50	ng/mL	No	Consistent Result
15. CleanAssure ANTI-INFLAMMATORY / NSAIDs						
Celecoxib	Negative	0	5.00	ng/mL	No	Consistent Result
Cetirizine	Negative	0	1.00	ng/mL	No	Consistent Result
Chlorpheniramine	Negative	0	0.50	ng/mL	No	Consistent Result
Colchicine	Negative	0	0.50	ng/mL	No	Consistent Result
Desloratadine	Negative	0	0.50	ng/mL	No	Consistent Result
Diclofenac	Negative	0	0.50	ng/mL	No	Consistent Result
Diphenhydramine	Negative	0	0.50	ng/mL	No	Consistent Result
Etodolac	Negative	0	0.50	ng/mL	No	Consistent Result
Febuxostat	Negative	0	0.50	ng/mL	No	Consistent Result
Fexofenadine	Negative	0	1.00	ng/mL	No	Consistent Result
Hydroxychloroquine	Negative	0	0.50	ng/mL	No	Consistent Result
Hydroxyzine	Negative	0	0.50	ng/mL	No	Consistent Result
Ibuprofen	Negative	0	0.50	ng/mL	No	Consistent Result
Indomethacin	Negative	0	0.50	ng/mL	No	Consistent Result
Loratadine	Negative	0	0.50	ng/mL	No	Consistent Result
Meloxicam	Negative	0	0.50	ng/mL	No	Consistent Result
Montelukast	Negative	0	50.00	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	5.00	ng/mL	No	Consistent Result
Piroxicam	Negative	0	0.50	ng/mL	No	Consistent Result
Promethazine	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



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16. CleanAssure CARDIOVASCULAR						
Acebutolol	Negative	0	0.50	ng/mL	No	Consistent Result
Alpha-hydroxymetoprolol	Positive	75.64	0.50	ng/mL	No	Consistent Result
Amiodarone	Negative	0	0.50	ng/mL	No	Consistent Result
Amlodipine	Negative	0	0.50	ng/mL	No	Consistent Result
Apixaban	Negative	0	0.50	ng/mL	No	Consistent Result
Atenolol	Negative	0	0.50	ng/mL	No	Consistent Result
Atorvastatin	Negative	0	50.00	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	5.00	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
Doxazosin	Negative	0	1.00	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	5.00	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	0.50	ng/mL	No	Consistent Result
Glimepiride	Negative	0	50.00	ng/mL	No	Consistent Result
Hydrochlorothiazide	Negative	0	0.50	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	0.50	ng/mL	No	Consistent Result
Losartan	Negative	0	0.50	ng/mL	No	Consistent Result
Metoprolol	Positive	1656.00	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

Patient :	DOE, JOHN		Acc #: 1131
	DOCTOR, TEST	Birth: 01/01/2001	Collection Date:
		Age: 63 years	Received in Lab:

Test Name	Outcome	Measured Result	Cutoff	Units	Illicit?	Status
Propranolol	Negative	0	0.50	ng/mL	No	Consistent Result
Ranolazine	Negative	0	125.00	ng/mL	No	Consistent Result
Rivaroxaban	Negative	0	0.50	ng/mL	No	Consistent Result
Simvastatin	Negative	0	0.50	ng/mL	No	Consistent Result
Telmisartan	Negative	0	50.00	ng/mL	No	Consistent Result
Terazosin	Negative	0	0.50	ng/mL	No	Consistent Result
Ticagrelor	Negative	0	0.50	ng/mL	No	Consistent Result
Valsartan	Negative	0	5.00	ng/mL	No	Consistent Result
Verapamil	Negative	0	1.00	ng/mL	No	Consistent Result
Warfarin	Positive	602.00	0.50	ng/mL	No	Consistent Result
17. CleanAssure ANTIBIOTICS / UTIs						
Darifenacin	Negative	0	0.50	ng/mL	No	Consistent Result
Itraconazole	Negative	0	50.00	ng/mL	No	Consistent Result
Nitrofurantoin	Negative	0	5.00	ng/mL	No	Consistent Result
18. CleanAssure 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	0.50	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	Inconsistent Result
Omeprazole Acid	Negative	0	5.00	ng/mL	No	Inconsistent Result
Pantoprazole	Negative	0	5.00	ng/mL	No	Consistent Result
Ranitidine	Positive	995.00	0.50	ng/mL	No	Inconsistent Result
19. CleanAssure DIABETIC						
Glipizide	Negative	0	1.00	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	Negative	0	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	1.00	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	1.00	ng/mL	No	Consistent Result

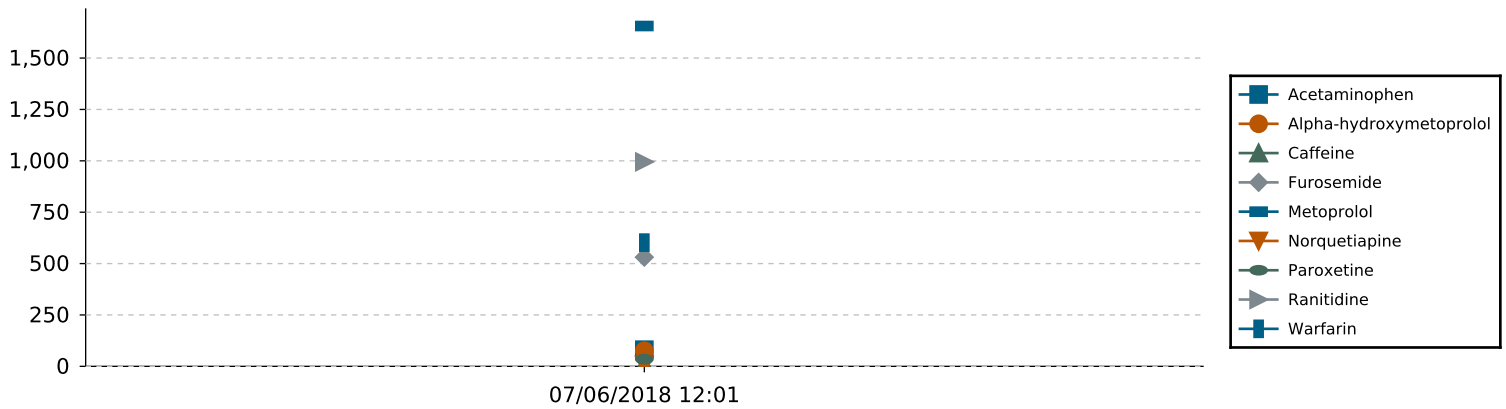


Patient :	DOE, JOHN	Birth:	01/01/2001	Acc #:	1131
	DOCTOR, TEST	Age:	63 years	Collection Date:	
				Received in Lab:	

Test Name	Outcome	Measured Result	Cutoff	Units	Illicit?	Status
20. CleanAssure DIURETICS / INCONTINENCE						
Acetazolamide	Negative	0	0.50	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	0.50	ng/mL	No	Consistent Result
Furosemide	Positive	531.08	0.50	ng/mL	No	Consistent Result
Indapamide	Negative	0	0.50	ng/mL	No	Consistent Result
Solifenacin	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
21. CleanAssure 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
22. CleanAssure 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	Negative	0	0.50	ng/mL	No	Consistent Result
Prednisolone	Negative	0	0.50	ng/mL	No	Consistent Result
Raloxifene	Negative	0	50.00	ng/mL	No	Consistent Result
23. CleanAssure ANTI-NEOPLASTICS / CANCER THERAPY						
Methotrexate	Negative	0	1.00	ng/mL	No	Consistent Result
Ondansetron	Negative	0	0.50	ng/mL	No	Consistent Result
24. CleanAssure DEMENTIA (Parkinson's/Alzheimer's)						
Donepezil	Negative	0	1.00	ng/mL	No	Consistent Result
Rivastigmine	Negative	0	0.50	ng/mL	No	Consistent Result
Ropinirole	Negative	0	0.50	ng/mL	No	Consistent Result

Patient :	DOE, JOHN	Birth: 01/01/2001	Acc #: 1131
	DOCTOR, TEST	Age: 63 years	Collection Date:
			Received in Lab:

Historical Result Data



Comments:

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.

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 dried blood spot specimens (CleanAssure™ DBS) parent drugs are often detected in higher concentrations than the metabolite. Sometimes only the metabolite may be detected in urine specimens and not the parent drug.

In case of patients consuming HYDROCODONE-containing medications: **Norhydrocodone** is the major metabolite of **Hydrocodone** indicating presence of Hydrocodone in the urine. **While Hydrocodone can also be metabolized to Hydromorphone, identification of just Hydromorphone by itself is not a confirmation of Hydrocodone being present**, since recent studies suggest that urine specimens of patients taking Hydrocodone always show presence of Hydrocodone or Norhydrocodone in combination with Hydromorphone.

FOR PATIENT RESULTS INDICATING JUST THE PRESENCE OF HYDROMORPHONE: THIS MAY BE DERIVED FROM MORPHINE-CONTAINING PRESCRIPTION DRUGS OR HYDROMORPHONE-ONLY PRESCRIPTIONS (FOR EXAMPLE, DILAUIDID).

Further reading: Valtier,S. and Bebartha,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.)



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Patient :	DOE, JOHN		Acc #:	1131
	DOCTOR, TEST	Birth: 01/01/2001		
		Age: 63 years	Collection Date:	
			Received in Lab:	

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: **07/12/2018 20:57**