

3703 Camino del Rio South 100-A
 San Diego, CA, 92108
 6194505870 - Phone
 6194506023 - Fax
 CLIA# 05D2027247

Patient :	DOE, JANE		Acc #:	1229
Patient #:		Birth:	01/01/2001	
Doctor:	DOCTOR, TEST	Age:	53 years	Collection Date: 07/16/2018 11:57
		Gender:	Female	Received in Lab: 07/16/2018 11:57

Drug Adherence Assessment Report

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

Prescribed Medications: HYDROMORPHONE (DILAUDID, EXALGO), CYCLOBENZAPRINE (FLEXERIL), METHADONE (METHADOSE), MARIJUANA (THC)

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

REPORTED PRESCRIPTION	FLAG	ANTICIPATED POSITIVE(S)	TEST OUTCOME	DETECTION WINDOW
METHADONE (METHADOSE)	⚠	Methadone	Positive	Plasma Half-Life: 15-55 hours
METHADONE (METHADOSE)	⚠	EDDP	Negative	Plasma Half-Life: 15-55 hours
MARIJUANA (THC)	✓	THC (Marijuana metabolite)	Positive	Plasma Half-Life: 4-12 hours

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

REPORTED PRESCRIPTION	FLAG	ANTICIPATED POSITIVE(S)	TEST OUTCOME	DETECTION WINDOW
HYDROMORPHONE (DILAUDID, EXALGO)	⚠	Hydromorphone	Negative	Plasma Half-Life: 1.5-4 hours
CYCLOBENZAPRINE (FLEXERIL)	⚠	Cyclobenzaprine	Negative	Plasma Half-Life: 8-37 hours

INCONSISTENT RESULTS - ANALYTE DETECTED BUT NO CORESPONDING PRESCRIPTION REPORTED

REPORTED PRESCRIPTION	FLAG	ILLICIT	MEASURED RESULT	CUTOFF	TEST OUTCOME	DETECTION WINDOW
(-)-Cotinine	✓	No	168.0	0.50	Positive	Plasma Half-Life:10-27 hours
Caffeine	✓	No	1304.0	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	None

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ADDITIONAL DETECTED ANALYTES

CAFFEINE (CAFCIT, ALERT), NICOTINE

Drug-Drug Interactions

 **CYCLOBENZAPRINE (FLEXERIL) & HYDROMORPHONE (DILAUDID, EXALGO)** **MODERATE**




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

 **CYCLOBENZAPRINE (FLEXERIL) & METHADONE (METHADOSE)** **MODERATE**

Caution is recommended if methadone is used in combination with other drugs that can prolong the QT interval, particularly in the setting of chronic pain management or methadone maintenance for opioid dependency where high dosages may be employed. Patients should be advised to seek prompt medical attention if they experience symptoms that could indicate the occurrence of torsade de pointes such as dizziness, lightheadedness, fainting, palpitation, irregular heart rhythm, shortness of breath, or syncope. If taking drugs that also cause CNS-depressant or orthostatic effects (e.g., sedating antihistamines, psychotropic drugs like tricyclic antidepressants, phenothiazines, and neuroleptics), patients should be made aware of the possibility of additive effects with methadone and counseled to avoid activities requiring mental alertness until they know how these agents affect them.

(1) Krantz MJ, Mehler PS "Synthetic opioids and QT prolongation." Arch Intern Med 163 (2003): 1615; author reply 1615

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	Negative	0	0.50	ng/mL	No	Consistent Result

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Test Name	Outcome	Measured Result	Cutoff	Units	Illicit?	Status
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
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	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	Positive	9.00	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
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
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

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2. CleanAssure BENZODIAZEPINES						
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
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
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
Fluphenazine	Negative	0	0.50	ng/mL	No	Consistent Result
Haloperidol	Negative	0	0.50	ng/mL	No	Consistent Result
Olanzapine	Negative	0	1.00	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
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
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
Dihydrokavain	Negative	0	1.00	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
Imipramine	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
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
5. CleanAssure DEPRESSANTS						
Alpha-Hydroxymidazolam	Negative	0	0.50	ng/mL	No	Consistent Result
Desalkylflurazepam	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

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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
Oxcarbazepine	Negative	0	0.50	ng/mL	No	Consistent Result
Pregabalin	Negative	0	0.50	ng/mL	No	Consistent Result
Tiagabine	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	Consistent 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
8. CleanAssure STIMULANTS / ADHD						
Amphetamine	Negative	0	0.50	ng/mL	No	Consistent Result
Caffeine	Positive	1304.00	0.50	ng/mL	No	Inconsistent Result
Ephedrine	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-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)	Positive	9.59	0.50	ng/mL	Yes	Consistent Result

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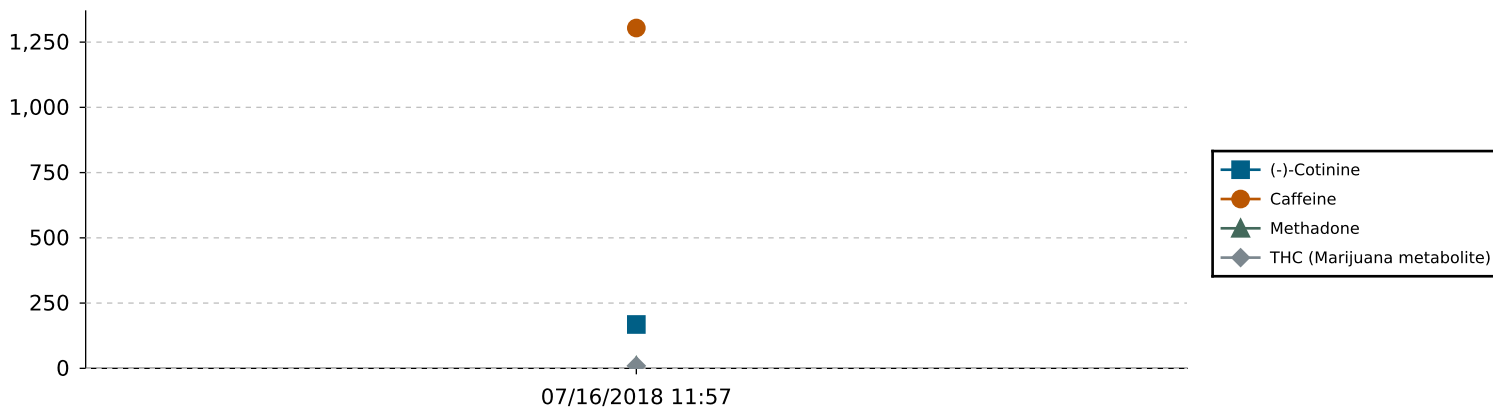
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13. CleanAssure BARBITURATES						
Amobarbital	Negative	0	0.50	ng/mL	No	Consistent Result
Butabarbital	Negative	0	0.50	ng/mL	No	Consistent Result
Butalbital	Negative	0	0.50	ng/mL	No	Consistent Result
Pentobarbital	Negative	0	0.50	ng/mL	No	Consistent 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	Positive	168.00	0.50	ng/mL	No	Inconsistent 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

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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, DILAUID).

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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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.*

THC- Tetrahydrocannabinol - was observed.

Reviewed By: _____

Date: **07/17/2018 19:30** _____