

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

Patient : DOE, JOHN **Acc #:** 363
 Patient #: Birth: 01/01/2001
 Doctor: DOCTOR, TEST Age: 55 years Collection Date: 06/07/2018 14:10
 Gender: Male Received in Lab: 06/08/2018 14:10

Drug Adherence Assessment Report

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

Prescribed Medications: NO MEDICATION LIST PROVIDED

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

REPORTED PRESCRIPTION	FLAG	ANTICIPATED POSITIVE(S)	TEST OUTCOME	DETECTION WINDOW
N/A		N/A	N/A	N/A

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

REPORTED PRESCRIPTION	FLAG	ANTICIPATED POSITIVE(S)	TEST OUTCOME	DETECTION WINDOW
N/A		N/A	N/A	N/A

INCONSISTENT RESULTS - ANALYTE DETECTED BUT NO CORESPONDING PRESCRIPTION REPORTED

REPORTED PRESCRIPTION	FLAG	ILLICIT	MEASURED RESULT	CUTOFF	TEST OUTCOME	DETECTION WINDOW
Gabapentin	✓	No	1825.0	5.00	Positive	Plasma Half-Life: 5-7 hours
Carisoprodol	✓	No	96.0	50.00	Positive	Plasma Half-Life: 2 hours
Meprobamate	✓	No	0.0	10.00	Negative	Plasma Half-Life: 10 hours
Caffeine	✓	No	152.0	125.00	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	NO MEDICATION LIST PROVIDED

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

Patient :	DOE, JOHN	Acc #:	363
Patient #:		Birth:	01/01/2001
Doctor:	DOCTOR, TEST	Age:	55 years
		Gender:	Male
		Collection Date:	06/07/2018 14:10
		Received in Lab:	06/08/2018 14:10

ADDITIONAL DETECTED ANALYTES


GABAPENTIN (NEURONTIN), CARISOPRODOL (SOMA), 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. CleanAssure NARCOTIC ANALGESICS / OPIATES						
Acetaminophen	Negative	0	0.50	ng/mL	No	Consistent Result
Buprenorphine	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	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

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

Patient : DOE, JOHN **Acc #:** 363
 Patient #: Birth: 01/01/2001
 Doctor: DOCTOR, TEST Age: 55 years Collection Date: 06/07/2018 14:10
 Gender: Male Received in Lab: 06/08/2018 14:10

Test Name	Outcome	Measured Result	Cutoff	Units	Illicit?	Status
Norfentanyl	Negative	0	0.50	ng/mL	No	Consistent Result
Norhydrocodone	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
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
Alprazolam	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
Lorazepam	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
Temazepam	Negative	0	0.50	ng/mL	No	Consistent Result
3. CleanAssure ANTI-PSYCHOTICS						
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
Quetiapine	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

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

Patient :	DOE, JOHN		Acc #:	363
Patient #:		Birth:	01/01/2001	
Doctor:	DOCTOR, TEST	Age:	55 years	Collection Date: 06/07/2018 14:10
		Gender:	Male	Received in Lab: 06/08/2018 14:10

Test Name	Outcome	Measured Result	Cutoff	Units	Illicit?	Status
4. CleanAssure ANTI-DEPRESSANTS / SSRI / SNRI / TCA						
Bupropion	Negative	0	0.50	ng/mL	No	Consistent Result
Citalopram	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
Mirtazapine	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						
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						
Gabapentin	Positive	1825.00	0.50	ng/mL	No	Inconsistent Result
Lamotrigine	Negative	0	0.50	ng/mL	No	Consistent Result
Levetiracetam	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						
Carisoprodol	Positive	96.00	0.50	ng/mL	No	Inconsistent Result
Cyclobenzaprine	Negative	0	0.50	ng/mL	No	Consistent Result
Meprobamate	Negative	0	0.50	ng/mL	No	Inconsistent Result
8. CleanAssure STIMULANTS / ADHD						
Amphetamine	Negative	0	0.50	ng/mL	No	Consistent Result
Caffeine	Positive	152.00	0.50	ng/mL	No	Inconsistent Result
Methylphenidate	Negative	0	0.50	ng/mL	No	Consistent Result
Ritalinic Acid	Negative	0	0.50	ng/mL	No	Consistent Result
9. CleanAssure ANTIDOTES						
Naloxone	Negative	0	0.50	ng/mL	No	Consistent Result

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

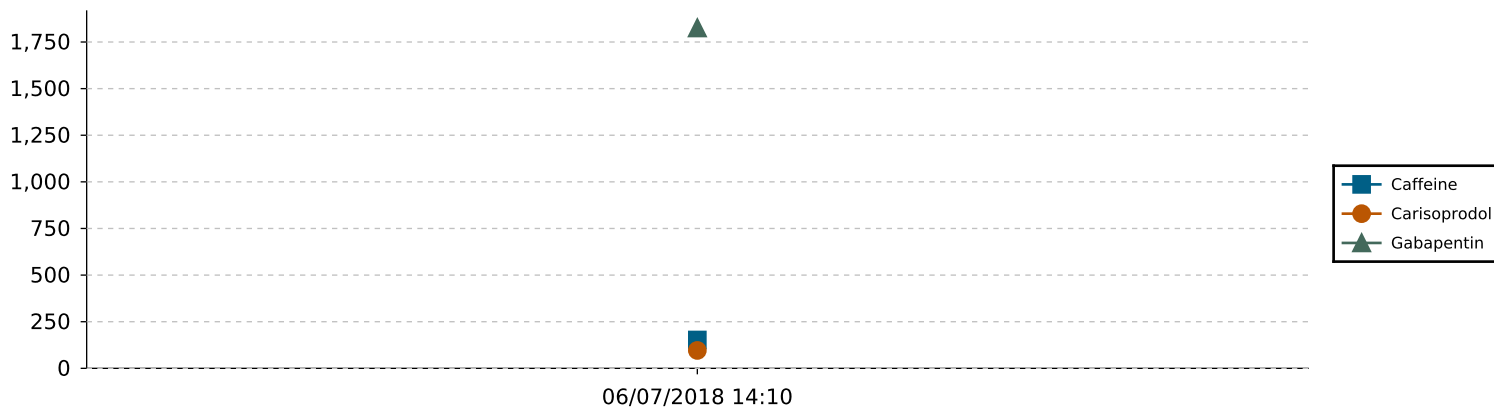
Patient :	DOE, JOHN		Acc #:	363
Patient #:		Birth:	01/01/2001	
Doctor:	DOCTOR, TEST	Age:	55 years	Collection Date: 06/07/2018 14:10
		Gender:	Male	Received in Lab: 06/08/2018 14:10

Test Name	Outcome	Measured Result	Cutoff	Units	Illicit?	Status
10. CleanAssure ILLICITS						
AM2201 (Spice Cannabinoid)	Negative	0	0.50	ng/mL	Yes	Consistent Result
Benzoylecgonine	Negative	0	0.50	ng/mL	Yes	Consistent Result
Cocaine	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
Methamphetamine	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
 6194505870 - Phone
 6194506023 - Fax
 CLIA# 05D2027247

Patient :	DOE, JOHN		Acc #:	363
Patient #:		Birth:	01/01/2001	
Doctor:	DOCTOR, TEST	Age:	55 years	Collection Date: 06/07/2018 14:10
		Gender:	Male	Received in Lab: 06/08/2018 14:10

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, DILAUDID).

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.)

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

Patient :	DOE, JOHN	Acc #:	363
Patient #:		Birth:	01/01/2001
Doctor:	DOCTOR, TEST	Age:	55 years
		Gender:	Male
		Collection Date:	06/07/2018 14:10
		Received in Lab:	06/08/2018 14:10

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 21:31** _____