

TECHNICAL

November, 2019

Adding Oxycodone and Hydrocodone to Urine Drugs of Abuse Screen

Effective November 14, 2019, Oxycodone and Hydrocodone will be added to the Urine Toxicology Screen DAU (Drug Screen) testing performed at the Methodist Pathology Center laboratory.

These tests detect Oxycodone (and its metabolite Oxymorphone) and Hydrocodone (and its metabolites Hydromorphone and Hydromorphone glucuronide). Additionally, cross reactivity with structurally related compounds may be observed. Both tests utilize enzyme immunoassay methodology. Oxycodone is detected at 100ng/mL and Hydrocodone at 100ng/mL.

The current urine drugs of abuse screen and cutoff concentrations for "positive" result are:

Cannabinoid (THC): 50 ng/mL

Cocaine: 300 ng/mL

Amphetamines: 500 ng/mL

Barbiturates: 200 ng/mL

Benzodiazepines: 100 ng/mL

Opiates: 300 ng/mL (*300ng/mL applies to morphine only; detected analogs and metabolites (Codeine, Ethyl morphine, Diacetylmorphine, 6-Acetylmorphine, Dihydrocodeine, Morphine-3-glucuronide, and Thebaine) have different cut-offs*)

Urine Toxicology Screen testing is intended for MEDICAL purposes only.

With the exception of amphetamines, results will not be routinely confirmed. Presumptive positive amphetamine results will be sent to a reference lab for confirmatory testing.

This Urine toxicology screen DOES NOT detect meperidine, methadone, fentanyl, GHB, and propoxyphene, among other medications.

In cases where identity or class of the drug or drugs of interest is not known or the in house urine drug screen doesn't detect the drug of interest, please consider additional testing at reference laboratory utilizing Gas Chromatography-Mass Spectrometry/Liquid Chromatography-Tandem Mass Spectrometry methodologies (ARUP test 0090500).

Additional testing and confirmatory testing can be performed upon request.

Changes: Oxycodone and Hydrocodone added to in house Urine Drugs of Abuse Screen

Order: Toxicology Screen DAU (Drugs of Abuse Screen) (123238)

Specimen Requirements: 30mL well-mixed urine (random), minimum 10mL. Refrigerate 2-8°C

Test Performed: 24/7

Please direct any questions to Dr. George Bedrnicek at 402 955-5528 or to Dr. Deborah Perry at 402 354-4559.

References:

Comparison of Response of DRI Oxycodone Semiquantitative Immunoassay with True Oxycodone Values Determined by Liquid Chromatography Combined with Tandem Mass Spectrometry: Sensitivity of the DRI Assay at 100 ng/mL Cut-Off and Validity of Semiquantitative Value

Dixon R Brent, Davis B, and Dasgupta A.

Journal of Clinical Laboratory Analysis 30: 190-195 (2016)

Evaluation of a Newly Formulated Enzyme Immunoassay for the Detection of Hydrocodone and Hydromorphone in Pain Management Compliance Testing.

Nascimento RI, Poklis A2, Wolf CE2.

J Anal Toxicol. 2016 Oct;40(8):583-587. Epub 2016 Aug 25.

AACC Lab Tests online – Drug Abuse testing

<https://labtestsonline.org/tests/drug-abuse-testing>