

Test Definition: OXYMU

Oxymorphone Confirmation, Random, Urine

Overview

Useful For

Detection and quantification of oxymorphone and noroxymorphone in urine

Method Name

Liquid Chromatography-Tandem Mass Spectrometry (LC-MS/MS)

NY State Available

Yes

Specimen

Specimen Type

Urine

Ordering Guidance

For situations where chain of custody is required, a Chain-of-Custody Kit (T282) is available. For chain-of-custody testing, order OXYCX / Oxycodone with Metabolite Confirmation, Chain of Custody, Random, Urine.

Additional drug panels and specific requests are available; call 800-533-1710 or 507-266-5700.

Additional Testing Requirements

If urine creatinine is required or adulteration of the sample is suspected, the following test should also be ordered ADULT / Adulterants Survey, Random, Urine.

Specimen Required

Supplies: Sarstedt 5 mL Aliquot Tube (T914) Collection Container/Tube: Plastic urine container

Submission Container/Tube: Plastic, 5-mL tube

Specimen Volume: 3 mL

Collection Instructions:

- 1. Collect a random urine specimen.
- 2. No preservative.

Additional Information:

- 1. No specimen substitutions.
- 2. STAT requests are **not accepted** for this test.
- 3. Submitting <1 mL will compromise our ability to perform all necessary testing.

Forms

If not ordering electronically, complete, print, and send a <u>Therapeutics Test Request</u> (T831) with the specimen.



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Specimen Minimum Volume

1 mL

Reject Due To

Gross	ОК
hemolysis	
Gross icterus	ОК

Specimen Stability Information

Specimen Type	Temperature	Time	Special Container
Urine	Refrigerated (preferred)	28 days	
	Frozen	28 days	
	Ambient	14 days	

Clinical & Interpretive

Clinical Information

Oxymorphone is metabolized in the liver to noroxymorphone and excreted via the kidney primarily as the glucuronide conjugates. Oxymorphone is also a metabolite of oxycodone and, therefore, the presence of oxymorphone could also indicate exposure to oxycodone.

The detection interval for opiates is generally 2 to 3 days after last ingestion.

Reference Values

Negative Cutoff concentrations by liquid chromatography-tandem mass spectroscopy: Oxymorphone: 25 ng/mL Noroxymorphone: 25 ng/mL

Interpretation

This procedure reports the total urine concentration; this is the sum of the unconjugated and conjugated forms of the parent drug.

Cautions

Other drugs in the opioid class, such as fentanyl, meperidine, methadone, and opiate antagonists such as naloxone, are not detected.

Clinical Reference

1. Gutstein HB, Akil H: Opioid analgesics. In: Brunton LL, Lazo JS, Parker KL, eds. Goodman and Gilman's: The Pharmacological Basis of Therapeutics. 11th ed. McGraw-Hill; 2006:chap 21

2. Baselt, RC: Disposition of Toxic Drugs and Chemical in Man. 9th ed. Biomedical Publications; 2011

3. Hackett LP, Dusci LJ, llett KF, Chiswell GM: Optimizing the hydrolysis of codeine and morphine glucuronides in urine. Ther Drug Monit. 2002;24(5):652-657



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4. Langman LJ Bechtel L, Meier BM, Holstege CP: Clinical Toxicology. In: Rifai N, Horvath AR, Wittwer CT, eds. Tietz Textbook of Clinical Chemistry and Molecular Diagnostics. 6th ed. Elsevier, 2018, pp 832-887

Performance

Method Description

Confirmation with quantification by liquid chromatography/mass spectrometry (LC-MS/MS).(Unpublished Mayo method)

PDF Report

Day(s) Performed Monday through Friday

Report Available 2 to 5 days

Specimen Retention Time 14 days

Performing Laboratory Location

Rochester

Fees & Codes

Fees

- Authorized users can sign in to <u>Test Prices</u> for detailed fee information.
- Clients without access to Test Prices can contact <u>Customer Service</u> 24 hours a day, seven days a week.
- Prospective clients should contact their account representative. For assistance, contact <u>Customer Service</u>.

Test Classification

This test was developed and its performance characteristics determined by Mayo Clinic in a manner consistent with CLIA requirements. It has not been cleared or approved by the US Food and Drug Administration.

CPT Code Information

80365 G0480 (if appropriate)

LOINC[®] Information

Test ID	Test Order Name	Order LOINC [®] Value
OXYMU	Oxymorphone Confirmation, U	94305-0



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Result ID	Test Result Name	Result LOINC [®] Value
62622	Oxymorphone-by LC-MS/MS	17395-5
36024	Oxymorphone Interpretation	69050-3
42014	Noroxymorphone-by LC-MS/MS	90894-7