

Morphine and Metabolite, Serum

Test ID: MORS

Useful for:

Monitoring therapeutic efficacy/compliance in serum specimens of patients who are prescribed morphine.

Method:

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

Reference Values:

Therapeutic range/Metabolite information (as applicable):

Morphine: 10-80 ng/mL

Hydromorphone: 1.0-30 ng/mL when used as sole therapy; Minor metabolite of morphine

Cutoff concentrations:

Morphine: 1.0 ng/mL

Hydromorphone: 1.0 ng/mL

Specimen Requirements:

Supplies: Sarstedt Aliquot Tube, 5 mL (T914)

Collection Container/Tube: Red top (Serum gel/SST are **not acceptable**)

Submission Container/Tube: Plastic vial

Specimen Volume: 1 mL serum

Specimen Minimum Volume: 0.5 mL serum

Collection Instructions: Centrifuge and aliquot serum into a plastic vial.

Specimen Stability Information:

Specimen Type	Temperature	Time
Serum Red	Refrigerated (preferred)	14 days
	Ambient	24 hours
	Frozen	28 days

Cautions:

Any aberrant result should be discussed with the patient and could be confirmed by re-testing or using an alternative matrix (eg, urine).

CPT Code:

G0480

80361 (if appropriate for select payers)

[Clinical Toxicology CPT Code Client Guidance](#)

Day(s) Performed: Wednesday

Report Available: 2 to 9 days

Note:

The following referral test code will become obsolete.

Test Name	Test ID	Referral Lab Code	Referral Lab
Morphine Confirmation, Serum	FMORS	279	Medtox

Questions

Contact Brandon DeBoom, Laboratory Resource Coordinator at 800-533-1710.