
Lab Dept: Chemistry

Test Name: DEMEROL LEVEL

General Information

Lab Order Codes: DEM

Synonyms: Meperidine; Normeperidine

CPT Codes: G0480 – Drug, test, definitive

Test Includes: Meperidine, Normeperidine levels reported in ng/mL.

Logistics

Test Indications: Monitoring Demerol levels.

Lab Testing Sections: Chemistry - Sendouts

Referred to: MedTox Laboratories (MedTox Test: 67)

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 1 day

Special Instructions: Trough levels are most reproducible.

Specimen

Specimen Type: Blood

Container: Red top NO GEL tube
Alternate: Green top NO GEL tube

Draw Volume: 9 mL (Minimum: 3 mL) blood

Processed Volume: 3 mL (Minimum: 1 mL) serum/plasma

Note: Submission of the minimum volume results in an elevated reporting limit and inability to repeat analysis.

Collection: Routine venipuncture

Special Processing: Lab Staff: Centrifuge specimen, remove serum/plasma aliquot into a screw-capped round bottom plastic vial. Store and ship at refrigerated temperatures. Forward promptly.

Patient Preparation: None

Sample Rejection: Mislabeled or unlabeled specimens

Interpretive

Reference Range:	Meperidine:	400 – 700 ng/mL
	Normeperidine:	Results reported in ng/mL
Critical Values:	Meperidine:	>1500 ng/mL
	Normeperidine:	>1000 ng/mL

Limitations: Meperidine reporting limit: <50 ng/mL

Normeperidine reporting limit: <50 ng/mL

Methodology: Liquid Chromatography/Tandem Mass Spectrophotometry (LC/MS/MS)

References: [MedTox Laboratories Web Site](#) (July 2006)

Updates:
5/6/2010: CPT updated, previously listed as 83925 x2
1/6/2015: CPT update
7/13/2015: Reference range update from Medtox for Meperidine, previously listed as 200-800 ng/mL, method update.
2/4/2016: CPT update
11/4/2016: Tube update, CPT update