Lab Dept: Chemistry

Test Name: DEMEROL LEVEL

**General Information** 

**Lab Order Codes:** DEM

**Synonyms:** Meperidine; Normeperidine

**CPT Codes:** G0480 – Drug, test, definitive

or

80362 – Opiods and opiate analogs; 1 or 2

**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: 1.8 mL) blood

**Processed Volume:** 3 mL (Minimum: 0.6 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 December 2017

**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