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**Lab Dept:** Chemistry

**Test Name:** DEMEROL LEVEL

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***General Information***

**Lab Order Codes:** DEM

**Synonyms:** Meperidine; Normeperidine

**CPT Codes:** G0480 – Drug, test, definitive  
or  
80362 – Opioids and opiate analogs; 1 or 2

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

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***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.

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***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.

<b>Collection:</b>	Routine venipuncture
<b>Special Processing:</b>	Lab Staff: Centrifuge specimen, remove serum/plasma aliquot into a screw-capped round bottom plastic vial. Store and ship at refrigerated temperatures. Forward promptly.
<b>Patient Preparation:</b>	None
<b>Sample Rejection:</b>	Mislabeled or unlabeled specimens

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***Interpretive***

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

<b>Limitations:</b>	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