**Lab Dept:** Chemistry  

**Test Name:** ETHOTOIN LEVEL

### General Information

**Lab Order Codes:** ETH  

**Synonyms:** Peganone®

**CPT Codes:** 80339 - Antiepileptics, not otherwise specified; 1-3  
OR
80480 – Drug, test, definitive

**Test Includes:** Ethotoin concentration measured in ug/mL.

### Logistics

**Test Indications:** Assessment of compliance, therapeutic drug monitoring.

**Lab Testing Sections:** Chemistry - Sendouts

**Referred to:** MedTox Laboratories (MedTox Test: 49)

**Phone Numbers:**  
- MIN Lab: 612-813-6280
- STP Lab: 651-220-6550

**Test Availability:** Daily, 24 hours

**Turnaround Time:** 2 days

**Special Instructions:** Trough levels are most reproducible.

### Specimen

**Specimen Type:** Blood

**Container:** Red top tube preferred

Alternate: Green (Na Heparin) tube (obtain from the laboratory).

**Draw Volume:** 6 mL (Minimum: 0.6 mL) blood
Processed Volume: 2 mL (Minimum: 0.2 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: 8.0 – 20.0 ug/mL

Note: The therapeutic range for ethotoin is not well established. Many patients respond well to ethotoin concentrations up to 60 µg/mL.

Critical Values: >60.0 ug/mL

Limitations: Reporting limit: 1.0 ug/mL

Methodology: Gas Chromatography/Flame ionization Detection (GC-FID)

References: MedTox Laboratories Web Page January 2015