Lab Dept: Chemistry

Test Name: ETHOSUXIMIDE LEVEL

General Information

Lab Order Codes: ZAR
Synonyms: Zarontin®
CPT Codes: 80168 - Ethosuximide
Test Includes: Ethosuximide level reported in mcg/mL.

Logistics

Test Indications: Monitoring therapy, determining compliance, assessing toxicity
Lab Testing Sections: Chemistry - Sendouts
Referred to: MedTox Laboratories (MedTox Test: 48)
Phone Numbers:
  MIN Lab: 612-813-6280
  STP Lab: 651-220-6550
Test Availability: Daily, 24 hours
Turnaround Time: 1 day, test performed daily
Special Instructions: Trough levels are most reproducible.

Specimen

Specimen Type: Blood
Container: Red NO GEL tube
Alternate: Green top NO GEL (Lithium heparin) tube
Draw Volume: 3 mL (Minimum: 1.8 mL) blood
Processed Volume: 1 mL (Minimum: 0.6 mL) serum/plasma
Collection: Routine venipuncture
**Special Processing:** Lab Staff: Centrifuge specimen, remove plasma aliquot into a screw-capped round bottom plastic vial. Store and ship at refrigerated temperatures. Forward promptly.

Minimum volumes may result in an elevated reporting limit and inability to repeat analysis.

**Patient Preparation:** None

**Sample Rejection:** Mislabeled or unlabeled specimens

**Interpretive**

**Reference Range:** Therapeutic range: 40 – 100 mcg/mL

**Toxic Values:** > or = 200 mcg/mL

**Limitations:** Minimum volumes may result in an elevated reporting limit and inability to repeat analysis. Reporting limit 1.0 mcg/mL.

**Methodology:** Immunoassay Technique (IA)

**References:** MedTox Laboratories December 2017

**Updates:**
- 3/4/2004: Test moved from Medtox to Mayo Medical Laboratories. Note: Change in upper therapeutic range from 100 to 75. Toxic range previously >150.
- 1/28/2010: Units changed from ug/mL to mcg/mL. Critical/Toxic value changed from ≥100 mcg/mL to >100 mcg/mL.
- 1/5/2011: Test moved from Mayo to MedTox. Toxic range previously listed >100 mcg/mL.
- 11/16/2016: Tube update to NO GEL.
- 12/13/2017: Updated toxic level, previously listed as >or=150 mcg/mL.