

---

**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

<b>Special Processing:</b>	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.
<b>Patient Preparation:</b>	None
<b>Sample Rejection:</b>	Mislabeled or unlabeled specimens

---

### ***Interpretive***

<b>Reference Range:</b>	Therapeutic range: 40 – 100 mcg/mL
<b>Toxic Values:</b>	> or = 200 mcg/mL
<b>Limitations:</b>	Minimum volumes may result in an elevated reporting limit and inability to repeat analysis. Reporting limit 1.0 mcg/mL.
<b>Methodology:</b>	Immunoassay Technique (IA)
<b>References:</b>	<a href="#">MedTox Laboratories</a> December 2017
<b>Updates:</b>	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 $\geq 100$ 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.