**Lab Dept:** Chemistry  
**Test Name:** TOPIRAMATE LEVEL

### General Information

**Lab Order Codes:** TOPX  
**Synonyms:** Topomax®; Topiragen  
**CPT Codes:** 80201 - Topiramate  
**Test Includes:** Topiramate concentration measured in ug/mL.

### Logistics

**Test Indications:** Measurement of topiramate serum concentration is useful for monitoring dosage compliance and to guide dose adjustment during co-therapy with phenytoin or carbamazepine.  
**Lab Testing Sections:** Chemistry  
**Phone Numbers:** MIN Lab: 612-813-6280  
STP Lab: 651-220-6550  
**Test Availability:** Daily, 24 hours  
**Turnaround Time:** 8 hours  
**Special Instructions:** N/A

### Specimen

**Specimen Type:** Blood  
**Container:** Red top (No Gel) tube  
Alternate: Green (Lithium Heparin No Gel) tube  
**Draw Volume:** 3 mL (Minimum 0.6 mL) blood  
**Processed Volume:** 1 mL (Minimum: 0.2 mL) serum/plasma  
**Collection:** Routine venipuncture
**Special Processing:** Lab Staff: Centrifuge specimen, remove serum 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:**

<table>
<thead>
<tr>
<th>Range</th>
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<td>2.0 – 25.0 ug/mL</td>
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**Critical Values:** N/A

**Limitations:** Reporting limit 1.5 ug/mL

**Methodology:** Immunoassay (IA)

**References:**

ARK Diagnostics, Inc (Revised August 2012) Package insert for the ARK Topiramate Assay, ARK Diagnostics, Inc, 48089 Fremont Blvd, Fremont, CA 94538, USA, 1600-0105-00, Rev 04, Printed in the USA

ARK™ Antiepileptic therapeutic Drug Monitoring Assays (February 2012) for Siemens Dimension RXL System, UDP 11-018 Rev 02 Siemens RXL, ARK Diagnostics, Inc

Epilepsia (Sunday, December 3, 2006) Poster Session II 7:30 am – 4:30 pm. Article first published online: 30 Oct 2006


Torrent Pharma Inc., (Revised August 2011) 5380 Holiday Terrace, Suite 40, Kalamazoo, Michigan 49009, 8029987

**Updates:**

6/11/2004: Test moved from MedTox Laboratories to Mayo Medical Laboratories. Note change in reference range from 2.0 – 25.0 ug/mL to peak and trough specific ranges listed under Reference Range: above. Method has changed from Immunoassay to Fluorescence Polarization Immunoassay (FPIA).

1/30/2008: MML Transport temperature changed from refrigerated to frozen.

12/7/2010: Information updated for MedTox, Mayo information no longer referenced. All specimens to be sent to MedTox.

11/15/2013: Moved from MedTox to internal test at Children’s laboratory.

2/9/2016: Update container types