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**Lab Dept:** Chemistry

**Test Name:** TOPIRAMATE LEVEL

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***General Information***

**Lab Order Codes:** TOPX

**Synonyms:** Topomax®; Topiragen

**CPT Codes:** 80201 - Topiramate

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

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***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

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***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

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***Interpretive***

**Reference Range:** 2.0 – 25.0 ug/mL

**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

<http://www.nlm.nih.gov/medlineplus/druginfo/meds/a697012.html>

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