
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 (performed on St Paul Campus)

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:	2.0 – 25.0 ug/mL
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Critical Values: N/A

Limitations: Reporting limit 1.5 ug/mL

Methodology: Immunoassay (IA)

References: ARK Diagnostics, Inc (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