
Lab Dept: Chemistry

Test Name: MEXILETINE LEVEL

General Information

Lab Order Codes: MEX

Synonyms: Mexitil®

CPT Codes: 80375 – Drug, definitive, qualitative or quantitative, nos; 1-3
OR
G0480 – Drug, test, definitive (if appropriate)

Test Includes: Mexiletine concentration measured in mcg/mL.

Logistics

Test Indications: Useful for assessing achievement of optimal therapeutic concentrations and assessing potential toxicity.

Lab Testing Sections: Chemistry - Sendouts

Referred to: Mayo Medical Laboratories (MML Test: MEX)

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 1 – 8 days, batched and performed once weekly

Special Instructions: See [Patient Preparation](#). Obtain Red No Gel tube from lab.

Specimen

Specimen Type: Blood

Container: Red top NO GEL

Draw Volume: 9 mL (Minimum: 3.3 mL) blood

Processed Volume: 3 mL (Minimum: 1.1 mL) serum

Collection: Routine venipuncture

Special Processing:	Lab Staff: Centrifuge specimen, remove serum aliquot into a screw-capped round bottom vial. Note whether specimen is serum. Store and ship at refrigerated temperatures. Forward promptly.
Patient Preparation:	Draw blood after patient has been receiving mexiletine for at least 3 days and just before administration of the next dose.
Sample Rejection:	Gross hemolysis; gross lipemia; grossly icteric; mislabeled or unlabeled specimens; specimens collected in gel tubes

Interpretive

Reference Range:	Therapeutic range: 0.80 – 2.0 mcg/mL (trough value)
Critical Values:	Toxic concentration: >2.0 mcg/mL (trough value)
Limitations:	N/A
Methodology:	High Performance Liquid Chromatography (HPLC)
References:	Mayo Medical Laboratory April 2016
Updates:	12/12/2011: Plasma is no longer an acceptable specimen type. Units update from ug/mL to mcg/mL. 2/4/2016: CPT update