Lab Dept: Chemistry

Test Name: CLONAZEPAM LEVEL

**General Information**

Lab Order Codes: CZPS

Synonyms: Klonopin®; Clonopin, Nitrozepane; Rivotrol

CPT Codes: 80346 – Benzodiazepines; 1-2
OR
G0480 – Drug, test, definitive (if appropriate)

Test Includes: Clonazepam level reported in ng/mL.

**Logistics**

Test Indications: Clonazepam is a long-acting benzodiazepine restricted in use to those patients who have responded for seizure control only to diazepam, but who no longer respond to diazepam within non-toxic levels. Clonezepam is an effective anticonvulsant, but used only as a last resort because of its side effects.

Lab Testing Sections: Chemistry - Sendouts

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

Phone Numbers: MIN Lab: 612-813-6280
STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 2-6 days, performed Tuesday and Thursday

Special Instructions: Should be drawn at trough or immediately before next dose (minimum 12 hours after last dose). Levels may be elevated in none-trough specimens

**Specimen**

Specimen Type: Blood

Container: Red top tube, NO GEL

Draw Volume: 3.6 mL (Minimum: 1.8 mL) blood
**Processed Volume:** 1.2 mL (Minimum: 0.6 mL) serum  

**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.  

Note: Specimen must be centrifuged within 2 hours of draw.  

**Patient Preparation:** None  

**Sample Rejection:** Mislabeled or unlabeled specimens; collected in gel tube; grossly icteric specimens  

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**Interpretive**

**Reference Range:** Anticonvulsant: 20 – 70 ng/mL  
Anxiolytic: 4 – 80 ng/mL  

Note: Some individuals may show therapeutic reponse outside these ranges, or may display toxicity within the therapeutic range, thus interpretation should include clinical evaluation. Levels may be elevated in non-trough specimens.  

**Critical Values:** N/A  

**Limitations:** N/A  

**Methodology:** Liquid Chromatography-Tandem Mass Spectrometry (LC-MS/MS)  

**References:** Mayo Medical Laboratories December 2017  

**Updates:** 3/1/2004: Test moved from MedTox Laboratories to Mayo Medical Laboratories. Note: change in reference range from 20-60 ng/mL to 10-50 ng/mL.  
3/18/2014: Draw volume and minimum increase per MML.  
2/2/2016: CPT update  
6/8/2016: Method update per MML.