
Lab Dept: Chemistry

Test Name: CLONAZEPAM AND METABOLITE LEVEL

General Information

Lab Order Codes: CZPS

Synonyms: Klonopin®; Clonopin, Nitrozepane; Rivotrol; Clonazepam and 7-Aminoclonazepam, Serum

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

Test Includes: Clonazepam and 7-Aminoclonazepam level reported in ng/mL.

Logistics

Test Indications: Useful for assessing patient compliance, monitoring for appropriate therapeutic level, or assessing clonazepam toxicity.

Lab Testing Sections: Chemistry - Sendouts

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

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 3-7 days, performed Monday and Wednesday

Special Instructions: Should be drawn at trough or immediately before next dose (minimum 12 hours after last dose). Levels may be elevated in non-trough specimens.

Specimen

Specimen Type: Blood

Container: Red top tube, NO GEL

Alternate: SST

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 within 2 hours of draw , remove serum aliquot into a screw-capped round bottom plastic vial. Store and ship at refrigerated temperatures. Forward promptly. Serum specimen is stable for 14 days refrigerated (preferred), frozen for 28 days or ambient for 72 hours.
Patient Preparation:	None
Sample Rejection:	Mislabeled or unlabeled specimens; grossly icteric specimens

Interpretive

Reference Range:	Clonazepam Anticonvulsant: 20 – 70 ng/mL Anxiolytic: 4 – 80 ng/mL Note: Some individuals may show therapeutic response 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:	Levels may be elevated in non-trough specimens.
Methodology:	Liquid Chromatography-Tandem Mass Spectrometry (LC-MS/MS)
References:	Mayo Clinic Laboratories March 2024
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. 4/22/2010: MML made test 8385 obsolete and started referring test 500108 to MML New England. Note updated ref range and method. 3/18/2014: Draw volume and minimum increase per MML. 2/2/2016: CPT update 6/8/2016: Method update per MML. 3/20/2024: Updated name to include metabolite, turnaround time, performance days. Added specimen stability and SST as alternate container.