
Lab Dept: Chemistry

Test Name: CAFFEINE LEVEL

General Information

Lab Order Codes: CAFM

Synonyms: Caffeine, Serum or Plasma

CPT Codes: 80155 - Caffeine

Test Includes: Caffeine level in ug/mL

Logistics

Test Indications: Useful for therapeutic drug monitoring for treatment of neonatal apnea.

Lab Testing Sections: Chemistry - Sendouts

Referred to: LabCorp (Passthrough Test Code 071258 for MedTox #18)

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Available as STAT = Yes

Turnaround Time: 2-3 days

Special Instructions: Trough levels are most reproducible

Specimen

Specimen Type: Blood

Container: Red top NO GEL tube
Alternate: Green top NO GEL (Lithium heparin) tube

Draw Volume: 3 mL (Minimum: 0.6 mL) blood

Processed Volume:	1 mL (Minimum: 0.2 mL) serum/plasma. Note: Submission of the minimum volume results in an elevated reporting range and inability to repeat analysis.
Collection:	Routine venipuncture
Special Processing:	Lab Staff: Centrifuge specimen, remove aliquot into a screw-capped round bottom plastic vial. Ship and store at ambient or refrigerated temperatures. Forward promptly. Specimen stable ambient for 3 days, refrigerated or frozen for 14 days.
Patient Preparation:	None
Sample Rejection:	Mislabeled or unlabeled specimens

Interpretive

Reference Range:	Therapeutic concentration: 8 - 20 ug/mL
Critical Values:	>50 ug/mL
Limitations:	N/A
Methodology:	Immunoassay (IA)
References:	Labcorp Test Menu January 2025 MedTox Laboratories Web Page January 2025
Updates:	11/16/2016: Tube update to NO GEL. 12/21/2017: Min vol update 1/7/2025: Updated critical value, turnaround time, minimum volume, reference lab test code. Added specimen stability.