
Lab Dept: Chemistry

Test Name: BUPROPION LEVEL

General Information

Lab Order Codes: BUP

Synonyms: Wellbutrin®, Zyban®

CPT Codes: G0480 – Drug, test, definitive

Test Includes: Bupropion and Hydroxybupropion levels reported in ng/mL.

Logistics

Test Indications: Monitoring of Bupropion levels

Lab Testing Sections: Chemistry - Sendouts

Referred to: MedTox Laboratories (Test:178)

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 3 days

Special Instructions: SST tubes are not acceptable. Trough levels are most reproducible.

Specimen

Specimen Type: Blood

Container: Red top NO GEL tube
Alternate: Green top NO GEL (Li Heparin) tube

Draw Volume: 9 mL (Minimum: 1.8 mL) blood

Processed Volume: 3 mL (Minimum: 0.6 mL) serum/plasma

NOTE: Submission of the minimum volume results in an elevated reporting limit and inability to repeat testing.

Collection: Routine venipuncture

Special Processing: Lab Staff: Centrifuge specimen, remove serum/plasma aliquot.

NOTE: A MedTox Bupropion Transfer tube MUST be used for the aliquot. This tube contains Sodium Citrate Monobasic for specimen stabilization.

Freeze immediately and ship at frozen temperatures. Forward promptly.

Patient Preparation: None

Sample Rejection: Specimen drawn in an SST tube; mislabeled or unlabeled specimens

Interpretive

Reference Range:	Bupropion:	50 - 100 ng/mL
	Hydroxybupropion:	600 – 2000 ng/mL

Critical Values: Bupropion: >300 ng/mL

Limitations: Bupropion reporting limit: 10 ng/mL

Hydroxybupropion reporting limit: 10 ng/mL

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

References: [Medtox Web Page](#) April 2018

Updates:
1/7/2015: CPT update
2/1/2016: CPT update
11/16/2016: CPT update
12/14/2017: Reporting limit update
4/19/2018: Added info for special aliquot tube.