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**Lab Dept:** Chemistry

**Test Name:** BUPROPION LEVEL

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***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.

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***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.

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***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

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***Interpretive***

<b>Reference Range:</b>	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.