<table>
<thead>
<tr>
<th><strong>Lab Dept:</strong></th>
<th>Chemistry</th>
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<tbody>
<tr>
<td><strong>Test Name:</strong></td>
<td>BUPROPION LEVEL</td>
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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.

**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 Buproprion 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**

<table>
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<tr>
<th>Reference Range:</th>
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<tbody>
<tr>
<td>Buproprion: 50 - 100 ng/mL</td>
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<tr>
<td>Hydroxybupropion: 600 – 2000 ng/mL</td>
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**Critical Values:** Buproprion: >300 ng/mL

**Limitations:**

- Buproprion 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.