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
Collection: Routine venipuncture

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

Reference Range:

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Bupropion</td>
<td>50 - 100 ng/mL</td>
</tr>
<tr>
<td>Hydroxybupropion</td>
<td>600 – 2000 ng/mL</td>
</tr>
</tbody>
</table>

Critical Values: Bupropion: >300 ng/mL

Limitations:

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Bupropion reporting limit:</td>
<td>10 ng/mL</td>
</tr>
<tr>
<td>Hydroxybupropion reporting limit:</td>
<td>10 ng/mL</td>
</tr>
</tbody>
</table>

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.