**Bupropion and Metabolite, Serum or Plasma**

ARUP test code 3003034

**Bupropion**

33 ng/mL

(Ref Interval: 10-100)

**INTERPRETIVE INFORMATION:** Bupropion and Metabolite, Serum or Plasma

**Therapeutic Range:**

10-100 ng/mL

**Toxic:** Greater than or equal to 400 ng/mL

Bupropion is an antidepressant drug indicated for the treatment of major depressive disorder. The drug is also used as treatment for smoking cessation. The therapeutic range is based on serum pre-dose (trough) draw at steady-state concentration. Bupropion is primarily metabolized to hydroxybupropion, which has about 50% of the activity of the parent drug. The pharmacokinetics of bupropion and metabolite are influenced by drug-drug interactions that affect CYP2B6 metabolism. Patients with renal or hepatic impairment may require a dose reduction. Adverse effects may include seizures, hypertension, nausea, vomiting, neuropsychiatric and cardiac abnormalities.

This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the US Food and Drug Administration. This test was performed in a CLIA certified laboratory and is intended for clinical purposes.

**Hydroxybupropion**

1263 ng/mL

(Ref Interval: 850-1500)

**INTERPRETIVE INFORMATION:** Bupropion and Metabolite, Serum or Plasma

**Therapeutic Range:**

850-1500 ng/mL

**Toxic:** Greater than or equal to 2000 ng/mL

H=High, L=Low, *=Abnormal, C=Critical
### VERIFIED/REPORTED DATES

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<tr>
<th>Procedure</th>
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**END OF CHART**

**H=High, L=Low, *=Abnormal, C=Critical**