

## Overview

### Method Name

High Performance Liquid Chromatography/Tandem Mass Spectrometry (LC-MS/MS)

### NY State Available

Yes

## Specimen

### Specimen Type

Serum Red

### Specimen Required

**\*\*\*Must submit one specimen per order. Specimens cannot be shared between multiple orders.\*\*\***

**Specimen Type:** Serum

**Collection Container/Tube:** Red-top

**Submission Container/Tube:** Plastic vial

**Specimen volume:** 1 mL

#### Collection Instructions:

1. Draw blood in a plain red-top tube(s), **serum gel tube is not acceptable.**
2. Centrifuge and send 1 mL of serum frozen in a plastic vial.

### Specimen Minimum Volume

0.5 mL

### Reject Due To

Gross Hemolysis	Reject
Gross Lipemia	OK
Gross Icterus	OK
Other	Polymer gel separation tube (SST or PST)

### Specimen Stability Information

Specimen Type	Temperature	Time	Special Container
Serum Red	Frozen	30 days	

## Clinical & Interpretive

**Reference Values**

Reporting Limit determined each analysis.

Units: ng/mL

**Interpretation**

Bupropion:

Maximum antidepressant response was observed at trough plasma concentrations of 50 – 100 ng/mL bupropion with virtually no response below 25 ng/mL.

Reported average bupropion peak plasma concentrations:

Adults: Single 100 mg IR – 120 +/- 10 ng/mL (Males):

150 +/- 10 ng/mL (Females)

Adults: Single 200 mg IR -220 +/- 20 ng/mL (Males):

270 +/- 20 ng/mL (Females)

Adults: Single 150 mg SR - 140 +/- 20 ng/mL

Juveniles: 100 mg/day SR for 2 weeks – 25 +/- 8 ng/mL

Juveniles: 200 mg/day SR for 2 weeks – 53 +/- 22 ng/mL

Specimens must be kept frozen. If specimens are not kept frozen, this may cause lower or negative values.

Hydroxybupropion:

8 adults (Age 22 – 42) taking thrice daily 100 mg normal release bupropion for 2 weeks had an average peak plasma concentration of 1000 +/- 70 ng/mL hydroxybupropion.

Juvenile patients taking once daily, extended release bupropion for two weeks had the following peak plasma concentrations:

100 mg/day (n = 11), 450 +/- 210 ng/mL hydroxybupropion

200 mg/day (n = 8), 710 +/- 350 ng/mL hydroxybupropion

**Performance****PDF Report**

No

**Day(s) Performed**

Monday through Sunday

**Report Available**

6 to 10 days

**Performing Laboratory Location**

NMS Labs

**Fees & Codes****Fees**

- Authorized users can sign in to [Test Prices](#) for detailed fee information.
- Clients without access to Test Prices can contact [Customer Service](#) 24 hours a day, seven days a week.
- Prospective clients should contact their account representative. For assistance, contact [Customer Service](#).

**Test Classification**

This test was developed and its performance characteristics determined by NMS Labs. It has not been cleared or approved by the U.S. Food and Drug Administration.

**CPT Code Information**

80338

**LOINC® Information**

Test ID	Test Order Name	Order LOINC® Value
FBUMT	Bupropion and Metabolite, S	Not Provided

Result ID	Test Result Name	Result LOINC® Value
Z3522	Bupropion	6706-6
Z3523	Hydroxybupropion	9418-5