

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.\*\*\*

Collection Container/Tube: Red top (Serum gel/SST are not acceptable)

Submission Container/Tube: Plastic vial

Specimen Volume: 1 mL Serum

Collections Instructions:

1. Centrifuge and aliquot 1 mL of serum into a plastic vial.
2. Send refrigerated.

Specimen Minimum Volume

Serum: 0.5 mL

Reject Due To

Gross hemolysis	Reject
Gross lipemia	OK
Gross icterus	OK
Polymer gel separation tube (SST or PST)	Reject

Specimen Stability Information

Specimen Type	Temperature	Time	Special Container
Serum Red	Frozen	30 days	

**Clinical & Interpretive****Clinical Information**

Refer to [www.nmslabs.com/test-catalog](http://www.nmslabs.com/test-catalog).

**Reference Values**

Reporting limit determined each analysis.

None Detected

**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:

Males:

Single 100 mg IR: 120 +/- 10 ng/mL

Single 200 mg IR: 220 +/- 20 ng/mL

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

Females:

Single 100 mg IR: 150 +/- 10 ng/mL

Single 200 mg IR: 270 +/- 20 ng/mL

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

Juveniles:

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

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

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

**Cautions**

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

**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