

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