

**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	

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**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 to 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:

Oral dose (mg); peak plasma concentrations (ng/mL)

Adults:

Single 100 IR: 296 +/- 154 ng/mL

Single 150 SR: 311 +/- 168 ng/mL

Single 300 ER: 402 +/- 145 ng/mL

Juveniles:

Daily 100 SR for 2 weeks: 451 +/- 214 ng/mL

Daily 200 SR for 2 weeks: 712 +/- 349 ng/mL

Half-life: approximately 15-22 hr

**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