



Test Definition: FBUMT

Bupropion and Metabolite, Serum

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.

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 |