MAYO CLINIC LABORATORIES

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 (preservative free)
Specimen Volume: 1 mL Serum
Collections Instructions:
1. Centrifuge and aliquot 1 mL of serum into a preservative-free plastic vial.
2. Send frozen.

Specimen Minimum Volume
Serum: 0.5 mL

Reject Due To

Gross hemolysis	Reject
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

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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