MAYO CLINIC LABORATORIES

# Test Definition: FALBU

Albuterol, Serum/Plasma

## Overview

### Method Name
High Performance Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS)

### NY State Available
Yes

## Specimen

### Specimen Type
Varies

### Specimen Required
*****Must submit one specimen per order. Specimens cannot be shared between multiple orders.*****
**Submit only one of the following specimens:**

**Serum**
**Specimen Type:** Serum
**Collection Container/Tube:** Red top
**Submission Container/Tube:** Plastic vial
**Specimen Volume:** 3 mL
**Collection Instructions:**
1. Draw blood in a plain, red-top tube(s). **Serum gel tube is not acceptable.**
2. Centrifuge and send 3 mL of serum refrigerated in a plastic, preservative-free vial.
**Note:** Label specimen appropriately (serum).

**Plasma**
**Specimen Type:** Plasma
**Container/Tube:** Lavender top or pink top (EDTA)
**Submission Container/Tube:** Plastic vial
**Specimen Volume:** 3 mL
**Collection Instructions:**
1. Draw blood in an EDTA (lavender top or pink top) tube(s). **Plasma gel tube is not acceptable.**
2. Centrifuge and send 3 mL of EDTA plasma refrigerated in a plastic, preservative-free vial.
**Note:** Label specimen appropriately (plasma).

### Specimen Minimum Volume
1.2 mL

### Reject Due To

| | |
|---|---|
| Other | SST or PST |

### Specimen Stability Information

| Specimen Type | Temperature | Time | Special Container |
|---|---|---|---|
| Varies | Ambient | 30 days | |
| | Refrigerated (preferred) | 30 days | |
| | Frozen | 365 days | |

## Clinical & Interpretive

### Reference Values

Reporting limit determined each analysis

None Detected ng/mL

Peak plasma levels following a 180 mcg dose via an inhaler: 1.5 ng/mL at 13 minutes post dose

Peak plasma levels following inhalation of a cumulative dose of 1 mg and 4 mg: approximately 5 and 20 ng/mL, respectively, 5 minutes post dose

Peak plasma levels following a single 8 mg oral-sustained release tablet: 13 ng/mL at 5.0 hours post dose

Average steady-state peak and trough plasma levels following a 4 mg (normal release tablet) every 6 hours for 5 days: 15 and 9.9 ng/mL, respectively.

Serum/plasma concentrations may vary significantly depending on dose, formulation, route of administration, device, lung function, and user mechanics.

## Performance

### PDF Report

No

### Day(s) Performed

Monday through Sunday

### Report Available

7 to 11 days

### Specimen Retention Time

2 weeks

### 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

80299

### LOINC® Information

| Test ID | Test Order Name | Order LOINC® Value |
|---|---|---|
| FALBU | Albuterol | 9311-2 |

| Result ID | Test Result Name | Result LOINC® Value |
|---|---|---|
| Z1441 | Albuterol | 9311-2 |
| Z1856 | Reporting Limit | 19147-8 |