MAYO CLINIC LABORATORIES

Test Definition: FALBU

Albuterol, Serum/Plasma

Reporting Title: Albuterol
Performing Location: NMS Labs

Specimen Requirements:

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

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

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Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
Z1441	Albuterol	Alphanumeric	ng/mL	9311-2
Z1856	Reporting Limit	Alphanumeric	ng/mL	19147-8

LOINC and CPT codes are provided by the performing laboratory.

Supplemental Report:

No

CPT Code Information:

80299

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.