

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

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.