

## 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.\*\*\*

**Specimen Type:** Serum

**Collection Container/Tube:** Red top

**Submission Container/Tube:** Plastic vial

**Specimen Volume:** 1 mL

#### Collection Instructions:

1. Draw blood in a plain, red-top tube(s). **Serum gel tube is not acceptable.**
2. Centrifuge and send 1 mL of serum frozen in a preservative-free plastic vial. **Specimen must be frozen immediately,** or results will be compromised.

### Specimen Minimum Volume

0.5 mL

### Reject Due To

Other	Polymer gel separation tube (SST or PST)
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### Specimen Stability Information

Specimen Type	Temperature	Time	Special Container
Serum Red	Frozen	6 days	

## Clinical & Interpretive

### Reference Values

Reporting limit determined each analysis.

Levodopa  
Units: mcg/mL

Carbidopa  
Units: mcg/mL

**Interpretation**

Levodopa

The target plasma concentration of levodopa in Parkinsonian patients is 2 +/- 0.5 mcg/mL. The average peak plasma levodopa concentration following a single oral dose of Sinemet containing 200 mg levodopa was 1.2 mcg/mL at 0.5 hours for normal release and 3.3 mcg/mL at 2 hours for controlled release. At steady-state, the average trough plasma levodopa concentration following oral Sinemet containing 200 mg levodopa was 0.07 mcg/mL for normal release and 0.16 mcg/mL for controlled release.

Carbidopa

Following a single oral dose of 250 mg levodopa and 25 mg carbidopa, peak plasma concentrations of carbidopa averaged 0.11 mcg/mL at 2.9 hours post dose. Carbidopa concentrations can decrease rapidly after collection unless flash frozen with dry ice.

**Performance****PDF Report**

No

**Day(s) Performed**

Monday - Sunday

**Report Available**

12 to 14 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**

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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
FSINS	Sinemet, Serum	Not Provided

Result ID	Test Result Name	Result LOINC® Value
Z3535	Levodopa	9385-6
Z3536	Carbidopa	9328-6