

**Overview****Method Name**

High-Performance Liquid Chromatography/Tandem Mass Spectrometry (LC-MS/MS)

**NY State Available**

Yes

**Specimen****Specimen Type**

Serum Red

**Specimen Required**

Draw blood in a plain, red-top tube(s). **(Serum gel tube is not acceptable.)** Spin down 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**

Hemolysis	NA
Lipemia	NA
Icterus	NA
Other	Polymer gel separation tube (SST or PST)

**Specimen Stability Information**

Specimen Type	Temperature	Time	Special Container
Serum Red	Frozen	6 days	

**Clinical and Interpretive****Reference Values**

Reporting limit determined each analysis.

Levodopa

Â Units: mcg/mL

Carbidopa

Â Units: mcg/mL

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## 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) and Time(s) Test Performed

Monday - Sunday

### Analytic Time

7 days

### Maximum Laboratory Time

9 - 11 days

### Performing Laboratory Location

NMS Labs

## Fees and 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 Regional Manager. 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

80375

### LOINC® Information



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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