MAYO CLINIC LABORATORIES

Test Definition: FSINS

Sinemet, Serum

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.*****

Collection Container/Tube: Red top (serum gel/SST are **not acceptable**)
Submission Container/Tube: Plastic vial
Specimen Volume: 1 mL Serum
Collection Instructions:
1. Promptly centrifuge and aliquot serum into a plastic vial.
2. **Immediately freeze specimen on dry ice or results will be compromised**.
3. Send frozen.

Specimen Minimum Volume
Serum: 0.5 mL

Reject Due To

All specimens will be evaluated by the processing and performing laboratories for test suitability.

Specimen Stability Information

Specimen Type	Temperature	Time	Special Container
Serum Red	Frozen	6 days	

Clinical & Interpretive

Clinical Information
Refer to www.nmslabs.com/test-catalog.

Reference Values

Reporting limit determined each analysis.

Levodopa: None detected
Carbidopa: None detected

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 through Sunday

Report Available

7 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