



NMS Labs

CONFIDENTIAL

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Robert A. Middleberg, PhD, F-ABFT, DABCC-TC, Laboratory Director

Demo Report

Report Issued 03/30/2020 13:42
Last Report Issued 06/07/2013 14:28

88888
Clinical Example Report
Attn: Example Reports
200 Welsh Road
Horsham, PA 19044

Patient Name 4780SP
Patient ID 4780SP
Chain 13002191
Age Not Given DOB Not Given
Gender Not Given
Workorder 13002191
Received 06/07/2013 14:24

Sample ID 13002191-001
Matrix Serum or Plasma
Patient Name 4780SP
Patient ID 4780SP
Container Type Clear vial

Collect Dt/Tm Not Given
Source Not Given

Approx Vol/Weight Not Given

Receipt Notes None Entered

Table with 5 columns: Analysis and Comments, Result, Units, Reporting Limit, Notes

4780SP Vitamin B3 (Niacin and Metabolites), Serum/Plasma

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

Nicotinic Acid None Detected ng/mL 10

Synonym(s): Niacor®; Niaspan®; Slo-Niacin®; Vitamin B3

Nicotinic acid occurs naturally in plants and animals and is also added to many foods as a vitamin supplement. Due to the large variability in the metabolism of nicotinic acid, the dosing preparation used (immediate-release vs. extended-release), and the mg doses used, the serum concentrations may range from less than 10 ng/mL to about 30000 ng/mL.

After oral administration of an immediate-release tablet, peak plasma concentrations are achieved in 30 to 60 min; after oral administration of an extended-release capsule, peak plasma concentrations occur in 4 to 5 hours. The plasma half-life of nicotinic acid is about 1 hour.

In one study, fasting plasma concentrations were reported to be approximately 10 ng/mL. In another study it was reported that the administration of a single 1000 mg extended-release tablet resulted in mean

Results for sample 13002191-001 are continued on next page



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Sample ID 13002191-001
Matrix Serum or Plasma
Patient Name 4780SP
Patient ID 4780SP

Collect Dt/Tm Not Given
Source Not Given

Table with 5 columns: Analysis and Comments, Result, Units, Reporting Limit, Notes. Row 1: Nicotinamide, None Detected, ng/mL, 10. Includes detailed text about nicotinic acid concentrations and Nicotinamide synthesis.

Results for sample 13002191-001 are continued on next page



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Sample ID 13002191-001

Matrix Serum or Plasma

Patient Name 4780SP

Patient ID 4780SP

Collect Dt/Tm Not Given

Source Not Given

Analysis and Comments	Result	Units	Reporting Limit	Notes
<p>This test should be considered as a therapeutic drug monitoring/toxicological test associated with niacin (Vitamin B3) supplementation. Care should be taken in the use of this test for basal Vitamin B3 determination. The supplied reference comment does not reflect normal, endogenous Vitamin B3 concentrations.</p>	None Detected	ng/mL	10	
<p>Nicotinuric Acid Synonym(s): Niacin Metabolite</p>				
<p>Nicotinuric acid is a metabolite of nicotinic acid and nicotinamide. Due to the large variability in the metabolism of nicotinic acid and nicotinamide, plasma concentrations of this metabolite also are variable.</p>				
<p>In one study it was reported that the administration of a single 1000 mg extended-release tablet of nicotinic acid resulted in a mean peak nicotinuric acid concentration of over 1000 ng/mL within 2 hours post dose, decreasing to less than 200 ng/mL by 6 hours and less than 50 ng/mL by 12 hours post dose.</p>				
<p>The administration of multiple oral doses of nicotinic acid (for a total of 2000 mg) resulted in the following mean peak nicotinuric acid plasma concentrations: 25 mg every 10 min. for 80 doses (over 13 hours): 950 ng/mL 50 mg every 10 min. for 40 doses (over 6.5 hours): 2300 ng/mL 100 mg every 10 min. for 20 doses (over 3 hours): 5100 ng/mL</p>				
<p>This test should be considered as a therapeutic drug monitoring/toxicological test associated with niacin (Vitamin B3) supplementation. Care should be taken in the use of this test for basal Vitamin B3 determination. The supplied reference comment does not reflect normal, endogenous Vitamin B3 concentrations.</p>				

This test was developed and its performance characteristics determined by NMS Labs. It has not been cleared or approved by the US Food and Drug Administration.