



LABORATORY REPORT

Example Client, XYZ123
1234 Warde Road
Ann Arbor MI 48108

EXAMPLE, REPORT W
WX0000003826 F 12/05/1988 34 Y

Referral Testing

Collected: 09/12/2023 11:33 Received: 09/12/2023 11:33

Table with 6 columns: Test Name, Result, Flag, Ref-Ranges, Units, Site. Row 1: Vitamin B3 (Niacin and Metabolites), Serum/Plasma; Nicotinic Acid, None Detected, ng/mL, NMRL.

Reporting Limit: 10 ng/mL
Synonym(s): Niacor(R); Niaspan(R); Slo-Niacin(R); 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 nicotinic acid concentrations of less than 50 ng/mL. The administration of multiple oral doses of nicotinic acid (for a total of 2000 mg) resulted in the following mean peak nicotinic acid plasma concentrations: 25 mg every 10 min. for 80 doses (over 13 hours): 1100 ng/mL 50 mg every 10 min. for 40 doses (over 6.5 hours): 5400 ng/mL 100 mg every 10 min. for 20 doses (over 3 hours): 29000 ng/mL 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. Analysis by High Performance Liquid Chromatography/ Tandem Mass Spectrometry (LC-MS/MS)

Table with 6 columns: Test Name, Result, Flag, Ref-Ranges, Units, Site. Row 1: Nicotinamide, 32, ng/mL, NMRL. Reporting Limit: 10 ng/mL

LAB: L - LOW, H - HIGH, AB - ABNORMAL, C - CRITICAL, . - NOT TESTED





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Table with 6 columns: Test Name, Result, Flag, Ref-Ranges, Units, Site. Contains detailed text regarding nicotinic acid plasma concentrations and testing procedures.

Reported Date: 2023.09.12 11:33 NIACN

LAB: L - LOW, H - HIGH, AB - ABNORMAL, C - CRITICAL, . - NOT TESTED