



May 17, 2010

RE: **Immediate Action test change notification**

Dear Valued Client:

The following pages detail important information regarding a test requiring database modifications. Please be advised that this urgent change is effective **May 24, 2010**.

Please use this packet of information to update your computer systems/records. This change is important to ensure standardization of our mutual laboratory databases.

If you have any questions about the information contained in this packet, please call our Client Support Department at (866) 522-2206. Thank you for your continued support of NMS Labs and your assistance in implementing this change.

Sincerely,

NMS Labs

Database Changes - Summary

Test Code	Test Name	New Acode	Discontinued
3131SP	Vitamin B3 Niacin (Nicotinic Acid), Serum/Plasma		•
4780SP	Vitamin B3 (Niacin and Metabolites), Serum/Plasma	•	

NMS Labs

3701 Welsh Road, Willow Grove, PA 19090

800-522-6671

NEW TESTS

Test Code	Test Name	Reporting Limit	Units	Method / CPT Code
4780SP	Vitamin B3 (Niacin and Metabolites), Serum/Plasma			
	Scope of Analysis: Nicotinic Acid	10	ng/mL	LC-MS/MS (84591)
	<p>Reference Comment: 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 30,000 ng/mL.</p> <p>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.</p> <p>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.</p> <p>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: 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</p>			

NEW TESTS

Test Code	Test Name	Reporting Limit	Units	Method / CPT Code
	Nicotinamide	10	ng/mL	
Reference Comment:	<p>Nicotinamide is a metabolite of nicotinic acid, is the common form of niacin included in vitamin preparations and is also added to many foods as a vitamin supplement. Due to the large variability in the metabolism of nicotinic acid, plasma concentrations of this metabolite also are variable.</p> <p>In one study, fasting plasma concentrations were reported to be approximately 40 ng/mL. In another study it was reported that the administration of a single 1000 mg extended-release tablet of nicotinic acid resulted in a mean peak nicotinamide concentration of 400 ng/mL between 5 and 10 hours post dose, decreasing to about 100 ng/mL by 16 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 nicotinamide plasma concentrations: 25 mg every 10 min. for 80 doses (over 13 hours): 1300 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): 2000 ng/mL</p>			
	Nicotinuric Acid	10	ng/mL	
Reference Comment:	<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>			

Updates effective:
May 24, 2010

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NEW TESTS

Test Code	Test Name	Reporting Limit	Units	Method / CPT Code
	<p>Specimen Requirements: Specimen Requirements: 1 mL Serum or Plasma Transport Temperature: Refrigerated Specimen Container: Plastic container (preservative-free) Light Protection: Not Required Special Handling: Promptly centrifuge and separate Serum or Plasma into a plastic screw capped vial using approved guidelines. Rejection Criteria: Received Room Temperature. Polymer gel separation tube (SST or PST).</p> <p>Stability: Room Temperature: 1 day(s) Refrigerated: 7 day(s) Frozen (-20 °C): 30 day(s)</p>			

DISCONTINUED TESTS

Test Code	Test Name	Alternative Test
3131SP	Vitamin B3 Niacin (Nicotinic Acid), Serum/Plasma	4780SP Vitamin B3 (Niacin and Metabolites), Serum/Plasma