

NEW TEST

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Vitamin B3 (Niacin and Metabolites), Serum/Plasma

3021015, VIT B3

Specimen Requirements:

Patient Preparation:	Collect specimen after a 4-hour fast.
Collect:	Plain Red, Serum Separator Tube (SST), Green (sodium or lithium heparin) or Plasma separator tube (PST)
Specimen Preparation:	Separate from cells ASAP or within 2 hours of collection. Transfer 1 mL of serum or plasma to an ARUP standard transport tube. (Min: 0.3 mL)
Transport Temperature:	Frozen
Unacceptable Conditions:	Hemolyzed samples. Samples collected in EDTA tubes.
Remarks:	Light protection is preferred during storage and shipment.
Stability:	After separation from cells: Ambient: 6 hours; Refrigerated: Unacceptable; Frozen: 1 month

Methodology: Quantitative High Performance Liquid Chromatography-Tandem Mass Spectrometry

Note: For determination of vitamin B3 sufficiency, avoid use of vitamin supplements for 24 hours prior to collection.

CPT Codes: 84591

New York DOH Approval Status: Specimens from New York clients will be sent out to a New York DOH approved laboratory, if possible.

Interpretive Data:

Niacin (nicotinic acid, NIC) and its metabolites, nicotinamide (NAM) and nicotinuric acid (NUA) are measured in this assay. Measurable concentrations of NIC and NUA typically are not found in fasting specimens and may indicate therapeutic use of niacin.

Vitamin B3 concentrations are reported in nmol/L. To convert to nanograms per milliliter (ng/mL), multiply the reported concentration for nicotinamide by 0.122, nicotinic acid by 0.123, and nicotinuric acid by 0.180.

Reference Interval:

Test Number	Components	Reference Interval
	Nicotinamide	88-400 nmol/L
	Nicotinic Acid	Less than or equal to 80 nmol/L
	Nicotinuric Acid	Less than or equal to 55 nmol/L

HOTLINE NOTE: Refer to the Hotline Test Mix for interface build information.