

**Overview****Method Name**

HighPerformanceLiquidChromatography(HPLC)

**NY State Available**

Yes

**Specimen****Specimen Type**

Plasma EDTA

**Specimen Required****Specimen Type:** Plasma**Container/Tube:** EDTA**Specimen Volume:** 4 mL

**Collection Instructions:** Draw sufficient blood in a lavender-top (EDTA) tube(s). Spin down and transfer to a plastic Amber vial (T192) to protect from light within 30 minutes of collection. Freeze and send 4 mL EDTA plasma frozen on dry ice.

**Specimen Minimum Volume**

1 mL

**Reject Due To**

Hemolysis	Mild OK; Gross reject
Lipemia	Mild OK; Gross reject
Icteric	NA
Other	Specimens not light protected

**Specimen Stability Information**

Specimen Type	Temperature	Time	Special Container
Plasma EDTA	Frozen (preferred)	56 days	LIGHT PROTECTED
	Refrigerated	48 hours	LIGHT PROTECTED

**Clinical and Interpretive****Clinical Information**

The amino acid tryptophan can be metabolically converted into niacin. Vitamin B3, also called niacin and nicotinic acid, is a water soluble B vitamin. It plays a role in releasing energy from carbohydrates and fats, metabolizes

proteins, and assists in the production of some hormones and in the formation of red blood cells. Niacin is also thought to prevent and treat diabetes, improve circulation (as inositol hexaniacinate); and relieve arthritis.

Niacin deficiency causes pellagra. Other forms of niacin may help prevent the development of childhood diabetes (Type I) in high risk children.

The beneficial use of niacin (nicotinic acid, but not niacinamide) to prevent or treat elevated blood lipids and reduce cardiovascular disease risk is documented. Large amounts of niacin may result in "niacin intolerance" in 15-40% of people who try it and the unpleasant side effect of "skin-flushing" (similar to hot flashes). The RDA for niacin is only 13-18 mg. Vitamin B3 has been used orally and intravenously in connection with various health conditions including; high triglycerides, dysmenorrhea, hypothyroidism, and multiple sclerosis.

### Reference Values

Units: ug/mL

Adult Reference Range:

> or = 10 years

Normal 0.50 - 8.45

Low <0.50

High >8.45

Pediatric Reference Range:

<10 years

Normal 0.50 - 8.91

Low <0.50

High >8.91

### Performance

#### PDF Report

No

#### Day(s) and Time(s) Test Performed

Varies; One day per week

#### Analytic Time

1 - 7 days

#### Maximum Laboratory Time

3 - 13 days

#### Performing Laboratory Location

BioAgilytix Diagnostics

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**Fees and 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 Regional Manager. For assistance, contact [Customer Service](#).

**Test Classification**

The performance characteristics of the listed assay was validated by Cambridge Biomedical Inc. The US FDA has not approved or cleared this test. The results of this assay can be used for clinical diagnosis without FDA approval. Cambridge Biomedical Inc. is a CLIA certified, CAP accredited laboratory for performing high complexity assays such as this one.

**CPT Code Information**

84591

**LOINC® Information**

Test ID	Test Order Name	Order LOINC Value
FNIAC	Niacin (Nicotinic Acid)	18244-4

Result ID	Test Result Name	Result LOINC Value
Z0144	Niacin	18244-4