
Overview**Method Name**

Direct Enzyme Immunoassay (EIA)

NY State Available

No

Specimen**Specimen Type**

Serum

Specimen Required**Patient preparation:**

Patient should NOT be on any Corticosteroids, anti-inflammatory medications or pain killers, if possible, for at least 48 hours prior to collection of specimen.

Serum**Specimen Type:** Serum**Container/Tube:** Red top or SST**Specimen Volume:** 3 mL

Collection Instructions: Draw blood in a plain, red-top tube(s), serum-gel tube(s) is acceptable. Separate immediately and send 3 mL of serum frozen in a plastic vial.

Reject Due To

Hemolysis	Mild reject ; Gross reject
Lipemia	Mild reject; Gross reject
Icterus	NA
Other	Specimens other than Serum or Plasma EDTA. Test is strict frozen

Specimen Minimum Volume

1 mL

Specimen Stability Information

Specimen Type	Temperature	Time	Special Container
Serum	Frozen (preferred)	30 days	

Clinical & Interpretive**Clinical Information**

The Interleukins belong to the family termed cytokines. They are peptides used by immune and inflammatory cells to communicate and control cell operations. The cytokines have some similar actions to the Growth Factors but Growth Factors regulate proliferation of non-immune cells. Interleukin 1a is a 17,500 molecular weight peptide derived primarily from macrophages, fibroblasts, endothelial cells, and B cells. The major target cells are T and B cells, Fibroblasts, and Hepatocytes. Interleukin 1a shares a receptor with Interleukin 1b although they are significantly different structurally. Interleukin 1a promotes antigen specific immune responses, inflammation, Prostaglandin secretion, Colony Stimulating Factors, proteoglycanase, collagenase, and gelatinase activity, and release of Interleukin 2 from T cells. Levels are stimulated by liposaccharide, endotoxins, inflammatory agents, lectin, Tumor Necrosis Factor, and Interferons. Levels are suppressed by Corticosteroids, Prostaglandin E2, and suppressant lymphocytes.

Reference Values

Less than 3.9 pg/mL

Clinical Reference

1. JT Whicher and SW Evans. Cytokines in Disease. Clinical Chemistry 36: 1269-1281, 1990.
2. MP Bevilacqua, JS Pober, GR Majeau, W Fiers, RS Cotran, and MA Gimbrone. Recombinant Tumor Necrosis Factor Induced Pro-Coagulant Activity in Cultured Human Vascular Endothelium: Characterization and Comparison with Action of Interleukin-1. Proceedings of the National Academy of Science 83: 4533-4537, 1986.

Performance**PDF Report**

No

Performing Laboratory Location

Inter Science Institute

Fees & Codes**Test Classification**

This test was performed using a kit that has not been cleared or approved by the FDA and is designated as research use only.

The analytic performance characteristics of this test have been determined by Inter Science Institute. This test is not intended for diagnosis or patient management decisions without confirmation by other medically established means.

CPT Code Information

83520

LOINC® Information

Test ID	Test Order Name	Order LOINC Value
FINTA	Interleukin 1-Alpha	33821-0

Result ID	Reporting Name	LOINC®
Z0942	Interleukin 1-Alpha	33821-0