

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 specimen collection.

Specimen Type: Serum

Collection Container/Tube: Red top or SST

Submission Container/Tube: Plastic vial

Specimen Volume: 3 mL

Collection Instructions:

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

Specimen Minimum Volume

1 mL

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 Stability Information

Specimen Type	Temperature	Time	Special Container
Serum	Frozen	90 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 1b 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 and it has pyrogenic activity. Interleukin 1b shares a receptor with Interleukin 1a although they are significantly different structurally. Interleukin 1b promotes antigen specific immune responses, inflammation, secretion, Colony Stimulating Factors, proteoglycanase, collagenase, and gelatinase activity, acute phase response, and cartilage resorption. Interleukin 1b increases accumulation of cell-associated and extracellular arachidonic acid, and induces release of Interleukin 6.

Reference Values

Less than 1.0 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

Referral

Day(s) Performed

Monday through Friday

Report Available

10 to 14 days

Performing Laboratory Location

Inter Science Institute

Fees & 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.

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- Prospective clients should contact their account representative. For assistance, contact [Customer Service](#).

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
FINTB	Interleukin 1-Beta	13629-1

Result ID	Test Result Name	Result LOINC® Value
Z0943	Interleukin 1-Beta	13629-1