MAYO CLINIC LABORATORIES

Test Definition: FINTA

Interleukin 1-Alpha

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	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

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.
- 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
FINTA	Interleukin 1-Alpha	33821-0

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