

## Overview

### Method Name

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:**

**Preferred:** Red top

**Acceptable:** 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. Centrifuge and aliquot 3 mL of serum into a plastic vial.
3. Send frozen.

### Specimen Minimum Volume

1 mL

### Reject Due To

Gross hemolysis	Reject
Gross lipemia	Reject
Gross icterus	Reject

### 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

Referral

### Day(s) Performed

Monday through Friday

### Report Available

12 to 14 days

### Performing Laboratory Location

Inter Science Institute

## Fees & Codes

### Fees

- Authorized users can sign in to [Test Prices](#) for detailed fee information.

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- 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 has not been cleared or approved by the US Food and Drug Administration.

This test was developed and its performance characteristics determined by Inter Science Institute. Values obtained with different methods, laboratories, or kits cannot be used interchangeably with the results on this report. The results cannot be interpreted as absolute evidence of the presence or absence of malignant disease.

**CPT Code Information**

83520

**LOINC® Information**

Test ID	Test Order Name	Order LOINC® Value
FIN1A	Interleukin 1-Alpha	33821-0

Result ID	Test Result Name	Result LOINC® Value
FIN1A	Interleukin 1-Alpha	33821-0