# Test Definition: IL8P

Interleukin 8, Plasma (Non-Orderable)

## Overview

### Useful For

**Only orderable as part of a profile**. For more information see CYTOP / Cytokine Panel, Plasma.

Assessment of interleukin 8 levels in plasma to understand the etiology of autoimmune and pro-inflammatory conditions when used in conjunction with clinical information and other laboratory testing

### Method Name

Only orderable as part of a profile. For more information see CYTOP / Cytokine Panel, Plasma.

Immunoassay

### NY State Available

No

## Specimen

### Specimen Type

Plasma EDTA

### Specimen Required

Only orderable as part of a profile. For more information see CYTOP / Cytokine Panel, Plasma.

**Supplies:** Sarstedt Aliquot Tube, 5 mL (T914)
**Collection Container/Tube:** Lavender-top (EDTA)
**Submission Container/Tube:** Plastic vial
**Specimen Volume:** 0.5 mL Plasma
**Collection Instructions:**
1. Immediately after specimen collection, place the tube on wet ice.
2. Within 2 hours of collection, centrifuge at 4 degrees C, 1500 x *g* for 10 minutes and aliquot plasma into a plastic vial.
3. Freeze immediately.

**Additional Information:** If a refrigerated centrifuge is not available, it is acceptable to use a room temperature centrifuge, provided the sample is kept on ice before centrifugation and is frozen immediately afterward.

### Specimen Minimum Volume

Plasma: 0.3 mL

### Reject Due To

| | |
|---|---|
| Gross | Reject |

| | |
|---|---|
| hemolysis | |
| Gross lipemia | Reject |
| Gross icterus | Reject |
| Heat-treated specimen | Reject |

### Specimen Stability Information

| Specimen Type | Temperature | Time | Special Container |
|---|---|---|---|
| Plasma EDTA | Frozen | 14 days | |

## Clinical & Interpretive

### Clinical Information

Cytokines are important mediators of cell-to-cell communication within the innate and adaptive immune systems. The expression of most cytokines is highly regulated and generally occurs in response to foreign or self-antigenic stimulation. The functions of cytokines are extremely varied, with many cytokines also displaying pleiotropic effects, depending on their cellular target. As a group, cytokines and their receptors represent a highly complex and critical regulatory system for normal immune response.

Interleukin 8 (IL-8/CXCL8) is a chemokine that recruits and activates neutrophils through CXCR1 and CXCR2 signaling, directing them to sites of infection and inflammation. When evaluated in conjunction with other cytokines in the multiplexed panel, IL-8 plasma concentrations may aid in evaluating the etiology of immune-mediated disorders.(1-3)

### Reference Values

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<18 years: Not established
> or =18 years: < or =7.6 pg/mL

### Interpretation

Elevated cytokine concentrations could be consistent with the presence of infection or another inflammatory process.

### Cautions

Results from cytokine testing should not be used to establish or exclude a specific diagnosis.

### Clinical Reference

1. Chauhan P, Nair A, Patidar A, Dandapat J, Sarkar A, Saha B. A primer on cytokines. Cytokine. 2021;145:155458. doi:10.1016/j.cyto.2021.155458
2. Karki R, Netea MG, Diorio C, Kanneganti TD. Cytokine storm. Nat Rev Dis Primers. 2026;12(1):1. doi:10.1038/s41572-025-00677-4
3. Zlotnik A, Yoshie O. Chemokines: a new classification system and their role in immunity. Immunity. 2000;12(2):121-7. doi:10.1016/s1074-7613(00)80165-x

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## Performance

### Method Description
Testing for interleukin 8 is performed using a laboratory-developed immunoassay.(Unpublished Mayo method)

### PDF Report
No

### Day(s) Performed
Wednesday

### Report Available
2 to 8 days

### Specimen Retention Time
14 days

### Performing Laboratory Location
Mayo Clinic Laboratories - Rochester Superior Drive

## 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 developed and its performance characteristics determined by Mayo Clinic in a manner consistent with CLIA requirements. It has not been cleared or approved by the US Food and Drug Administration.

### CPT Code Information
83520

### LOINC® Information

| Test ID | Test Order Name | Order LOINC® Value |
|---|---|---|
| IL8P | Interleukin 8, P | 33211-4 |

| Result ID | Test Result Name | Result LOINC® Value |
|---|---|---|
| IL8P | Interleukin 8, P | 33211-4 |