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**Lab Dept:** Flow and Immunology

**Test Name:** CYTOKINE PANEL

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***General Information***

**Lab Order Codes:** FCYTP

**Synonyms:** See individual tests below

**CPT Codes:** 83520 x13 – Immunoassay for analyte other than infectious agent antibody or infectious agent antigen; quantitative, not otherwise specified

**Test Includes:** ATNF(Tumor Necrosis Factor-alpha), ILK2(Interleukin 2), ILK2R(Interleukin 2 Receptor CD25 Soluble, ILK12(Interleukin 12), IFGM(Interferon gamma), ILK4(Interleukin 4), ILK5(Interleukin 5), ILK13(Interleukin 13), ILK17(Interleukin 17), ILK1B(Interleukin 1 beta), ILK6(Interleukin 6) & ILK8(Interleukin 8) measured in pg/mL.

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***Logistics***

**Test Indications:** This assay is used for understanding the pathophysiology of immune, infectious, inflammatory disorders and for research purposes.

**Lab Testing Sections:** Flow/Immunology - Sendouts

**Referred to:** Mayo Medical Laboratory (MML Test: FCYTP) forward to ARUP

**Phone Numbers:** MIN Lab: 612-813-6280

STP Lab: 651-220-6550

**Test Availability:** Daily, 24 hours

**Turnaround Time:** 3 – 8 days, performed Monday, Wednesday, Friday

**Special Instructions:** NA

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***Specimen***

**Specimen Type:** Blood

**Container:** Red top (NO GEL) tube  
Alternate: Green (Lithium Heparin) tube  
SST (Red, marble or gold) tube

<b>Draw Volume:</b>	3 (Minimum: 1) mL blood
<b>Processed Volume:</b>	1 (Minimum: 0.3) mL serum/plasma
<b>Collection:</b>	Routine venipuncture.
<b>Special Processing:</b>	Lab Staff: Centrifuge specimen. Spin specimen within 2 hours of collection. Aliquot serum/plasma into a screw-top plastic via. Store and ship specimen frozen. Additional specimens must be submitted when multiple tests are ordered.
<b>Patient Preparation:</b>	None
<b>Sample Rejection:</b>	Mislabeled or unlabeled specimens; warm or cold specimens

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***Interpretive***

**Reference Range:**

<b>Cytokine:</b>	<b>Reference value (pg/mL):</b>
Tumor Necrosis Factor alpha	≤ 22 pg/mL
Interferon gamma	≤ 5 pg/mL
Interleukin 1 beta	≤ 36 pg/mL
Interleukin 2	≤12 pg/mL
Interleukin 2 Receptor CD25 Soluble	≤1033 pg/mL
Interleukin 4	≤ 5 pg/mL
Interleukin 5	≤ 5 pg/mL
Interleukin 6	≤ 5 pg/mL
Interleukin 8	≤ 5 pg/mL
Interleukin 10	≤ 18 pg/mL
Interleukin 12	≤ 6 pg/mL
Interleukin 13	≤ 5 pg/mL
Interleukin 17	≤ 13 pg/mL

**Critical Values:** NA

**Limitations:** N/A

**Methodology:** Quantitative Multiplex Bead Assay

**References:** [Mayo Clinical Laboratories](#) February 2019