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**Lab Dept:** Flow Cytometry

**Test Name:** CYTOKINE INFLAMMATION 4 PLEX PANEL

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***General Information***

**Lab Order Codes:** CKCO2

**Synonyms:** N/A

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

**Test Includes:** Reportable levels for Interleukin-10, Interferon gamma, Interleukin-18, Soluble IL-2R alpha reported in pg/mL.

Note: Commercial kit validated by the testing laboratory, but not FDA approved for diagnostic use.

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***Logistics***

**Test indications:** Monitor disease progression of COVID-19 positive patients. Not intended for diagnostic purposes.

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

**Referred to:** Fairview University Diagnostic Laboratory (UM: CKCO2)

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

STP Lab: 651-220-6550

**Test Availability:** Daily, 24 hours

**Turnaround Time:** Reported within 24 hours of receipt

**Special Instructions:** N/A

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***Specimen***

**Specimen Type:** Blood

**Container:** Red NO GEL tube

**Draw Volume:** 4 mL (Minimum: 2 mL) blood

**Processed Volume:** 1 mL (Min: 0.5 mL) serum

**Collection:** Routine blood collection

**Special Processing:** Lab Staff: Allow samples to clot for 30 minutes from time of collection. Centrifuge for 15 minutes at 1000-1500 g (rcf) at room temperature.

Aliquot into two vials with 250 uL per vial. Freeze immediately at  $\leq -20^{\circ}\text{C}$  ( $-70^{\circ}\text{C}$  preferred). Contact Cytokine Lab if there is adequate sample for only one vial.

**Patient Preparation:** None

**Sample Rejection:** Gross hemolysis; specimens stored at room temperature for  $>2$  hours; mislabeled or unlabeled specimens

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***Interpretive***

<b>Reference Range:</b>	Cytokine type:	Result (pg/mL):
	Interferon gamma	$<5.0$ pg/mL
	Interleukin 18	$<470.0$ pg/mL
	Soluble IL-2R alpha	$<2700$ pg/mL
	Interleukin 10	$<5.0$ pg/mL

**Critical Values:** N/A

**Limitations:** Commercial kit validated by the testing laboratory, but not FDA approved for diagnostic use.

**Methodology:** Immunoassay

**References:** [Fairview University Diagnostic Laboratories](#) (Mayo 2020)