
Lab Dept: Flow and Immunology

Test Name: CYTOKINE STORM 4 PLEX PANEL

General Information

Lab Order Codes: CKCOV

Synonyms: Cytokine Inflammatory Panel

CPT Codes: 83520 x4 – Immunoassay for analyte other than infectious agent antibody or infectious agent antigen; quantitative, not otherwise specified

Test Includes: Reportable levels for Interleukin-6, Interleukin-1 beta, Interleukin 8 and TNF-alpha reported in pg/mL.

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

Logistics

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

Lab Testing Sections: Flow/Immunology Sendout

Referred to: Fairview University Diagnostic Laboratory (UM: CKCOVI)

Phone Numbers: MIN Lab: 612-813-62

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: Reported within 24 hours of receipt

Special Instructions: N/A

Specimen

Specimen Type: Blood

Container: Red NO GEL

Draw Volume: 4 mL (Min: 2.5 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°C preferred). Contact Cytokine Lab if there is adequate sample for only one vial.

Patient Preparation: N/A

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

Interpretive

Reference Range:	Cytokine type:	Range (pg/mL)
	Interleukin-6 (IL-6)	<8.0 pg/mL
	Interleukin-1 beta (IL-1 beta)	<0.7 pg/mL
	Interleukin-8 (IL-8)	<22.0 pg/mL
	TNF alpha (NF-alpha)	<14.0 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)