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 ≤ -20°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)