
Lab Dept: Flow Cytometry

Test Name: CYTOKINE INFLAMMATION 4 PLEX PANEL

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.

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

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°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

Interpretive

Reference Range:

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)