

Clear Form

See Page 2 for a list of Diagnostic Tests. Please mark **ALL** tests to be done.

Patient Information, Referring Physician, and Ordering Laboratory are **ALL REQUIRED** for samples to be processed without delay.

PATIENT INFORMATION

Patient Name

Surname:

First Name:

Sex **Female** **Male**

Personal Health Number

Date of Birth (dd/mm/yy)

REFERRING PHYSICIAN INFORMATION

Physician Name (Surname, First name)

Phone Number

Fax Number

Email address

Comments

ORDERING LABORATORY INFORMATION

Laboratory Name

Address

Phone number

Fax number

Email address

SAMPLE INFORMATION

Sample Type Serum Plasma CSF

Time and Date Collected (dd/mm/yy)

Ordering Lab Reference #

Reason for Testing / Comments

Sample Attestation

I attest that the sample was prepared in accordance with the sample collection procedure below

SAMPLE COLLECTION

Sample Collection and Preparation Procedure: Collect blood in a plasma EDTA tube (Purple Vacutainer) or in a serum collection tube (Gold (SST) or Red Vacutainer) - please do not use heparinized tubes for sample collection . Within 30 minutes from collection, centrifuge at 1000 x g for 10 minutes at 4°C. Immediately transfer/aliquot 0.3 - 1 mL cell-free plasma or serum to a small tube (~3mL or smaller tube such as a false-bottom tube). Freeze the sample (≤ -20°C) and ship on dry ice.

Sample Stability: Following the separation of serum/plasma from cells: Room temperature: 30 minutes; Refrigerated: Not acceptable; Frozen (-80°C preferred): 1 year

SHIPPING INFORMATION

Please ensure your samples are scheduled to arrive **before 3pm on Friday** of any desired workweek. Please do not send samples on weekends or holidays as MitogenDx will be closed and **SAMPLES WILL NOT BE RECEIVED UNTIL THE FOLLOWING WORKWEEK**. Please send properly labeled and packaged samples with this requisition to the address below.

For more information, see "Sending Samples" at Mitogendx.com

RECEIVING RESULTS

Results typically follow 5-7 working days after receipt of sample, depending on the test(s) requeste will be sent to the ordering lab.

If you have not received your results, please contact the ordering laboratory as results cannot be sent directly to physicians or patients.

CONTACT INFORMATION

MitogenDx Laboratory

3415C 3rd Ave NW

Calgary, AB, T2N 0M4

Phone: 403-800-8851 Fax: 403-800-8852

Email: lab@mitogendx.com

Visit our website: www.mitogendx.com

IMMUNE BIOMARKER TEST REQUISITION

Medical Personnel: Please mark ALL tests to be done

Cytokine, Chemokine, Growth Factor Panel (95-Plex): 6Ckine, APRIL, BAFF, BCA-1, CCL28, CTACK, EGF, ENA-78, Eotaxin, Eotaxin-2, Eotaxin-3, FGF-2, Flt-3 Ligand, Fractalkine, G-CSF, GCP-2, GM-CSF, Granzyme A, Granzyme B, GRO α , HMGB1, I-309, IFN α 2, IFN β , IFN γ , IFN ω , IL-1 α , IL-1 β , IL-1RA, IL-2, IL-3, IL-4, IL-5, IL-6, IL-7, IL-8, IL-9, IL-10, IL-11, IL-12p40, IL-12p70, IL-13, IL-15, IL-16, IL-17A, IL-17E/IL-25, IL-17F, IL-18, IL-20, IL-21, IL-22, IL-23, IL-24, IL-27, IL-28A, IL-29, IL-31, IL-33, IL-34, IL-35, IP-10, I-TAC, LIF, Lymphotoctin, MCP-1, MCP-2, MCP-3, MCP-4, M-CSF, MDC, MIG, MIP-1 α , MIP-1 β , MIP-1 δ , MIP-3 α , MIP-3 β , MPIF-1, PDGF-AA, PDGF-AB/BB, Perforin, RANTES, sCD40L, sCD137, SCF, SDF-1, sFas, sFasL, TARC, TGF α , TNF α , TNF β , TPO, TRAIL, TSLP, VEGF-A

Indications: Use this test to identify relevant therapy targets or investigate mechanisms of disease for autoimmune disorders (e.g., RA, SLE), autoinflammatory diseases (e.g., FMF, CAPS, sJIA), chronic inflammatory diseases (e.g., IBD, psoriatic arthritis, ankylosing spondylitis, Kawasaki disease), cytokine storm syndromes (e.g., MAS, HLH, post-HSCT or CAR-T hyperinflammation), neoplastic and paraneoplastic conditions (e.g., hematologic malignancies, paraneoplastic syndromes, cancer-associated inflammation), and complex chronic conditions (e.g., fibromyalgia, ME/CFS, long COVID, post-treatment Lyme disease syndrome).

Reference Intervals available for PLASMA-EDTA, SERUM, and CSF samples

Results presented with cytokine groupings (immune signatures)

Focused Cytokine, Chemokine, Growth Factor Panel (15-Plex): GM-CSF, IFN γ , IL-1 β , IL-1RA, IL-2, IL-4, IL-5, IL-6, IL-8, IL-10, IL-12p40, IL-12p70, IL-13, MCP-1, TNF- α

Indications: Use this test when identifying relevant therapy targets in severe or chronic inflammation.

Reference Intervals available for PLASMA-EDTA samples, SERUM, and CSF samples

Soluble Cytokine Receptor Panel (15-Plex): sCD30, sCD163, sEGFR, sgp130, sIL-1RI, sIL-1RII, sIL-2R α , sIL-4R, sIL-6R, sRAGE, sTNFR1, sTNFR2, sVEGFR1, sVEGFR2, sVEGFR3

Indications: Use this test to identify relevant therapy targets or investigate mechanisms of disease for inflammatory, autoimmune or neoplastic conditions.

Reference Intervals available for PLASMA-EDTA samples and CSF samples

Serum Amyloid A (SAA)

Indications: Use this test for acute phase inflammatory detection, chronic inflammatory diseases.

Reference Intervals available for PLASMA-EDTA samples and CSF (SAA only) samples

ADAMTS13 (A disintegrin and metalloproteinase with a thrombospondin type 1 motif, member 13)

Indications: Use this test for acute phase inflammatory detection, chronic inflammatory diseases. **Reference Intervals available for PLASMA-EDTA samples**

Anti-Cytokine Antibody IgG (23-Plex): Anti-BAFF, Anti-G-CSF, Anti-GM-CSF, Anti-IFN α 2, Anti-IFN β , Anti-IFN γ , Anti-IFN ω , Anti-IL-1 α , Anti-IL-2, Anti-IL-3, Anti-IL-4, Anti-IL-6, Anti-IL-8, Anti-IL-10, Anti-IL-12p40, Anti-IL-15, Anti-IL-17A, Anti-IL-17F, Anti-IL-18, Anti-IL-22, Anti-Osteopontin, Anti-PF4, Anti-TNF α

Interferon Panel (9-Plex): IFN α 2, IFN β , IFN γ , IFN γ R1, IFN ϵ , IFN λ 1, IFN λ 2, IFN λ 3, IFN ω

Indications: Use this test to assess the interferon response in viral infections, autoinflammatory interferopathies, and autoimmune diseases.

Reference Intervals available for PLASMA-EDTA samples and SERUM samples.

Angiogenesis Panel (12-Plex): Angiopoietin-2, BMP-9, Endoglin, Endothelin-1, FGF-1, Follistatin, HB-EGF, HGF, Leptin, PLGF, VEGF-C, VEGF-D

Indications: Use this test to assess abnormalities of angiogenesis in cancer, autoimmune diseases, cardiovascular disease, or other chronic inflammatory conditions.

Reference Intervals available for PLASMA-EDTA samples.

SAA / Cardiovascular Disease Panel (6-Plex): ADAMTS13, D-Dimer, SAA, sICAM-1, sP-Selectin, sVCAM-1

Indications: Use this test to investigate the underlying molecular basis of suspected coagulopathies, cardiovascular disease, and acute or chronic inflammation.

Reference Intervals available for PLASMA-EDTA samples.

Long COVID Vascular Health Panel (18-Plex): ADAMTS13, Angiopoietin-2, BMP-9, D-Dimer, Endoglin, Endothelin-1, FGF-1, Follistatin, HB-EGF, HGF, Leptin, PLGF, SAA, sICAM-1, sP-Selectin, sVCAM-1, VEGF-C, VEGF-D

Indications: Use this panel to investigate dysfunctions in vascular and endothelial integrity, coagulation, and inflammation. The panel consists of circulating factors that may suggest abnormalities in angiogenesis (a response to persistent vascular injury), coagulation, vascular function and inflammatory responses, which are thought to be key features of long COVID pathogenesis.

Reference Intervals available for PLASMA-EDTA samples.

Circulating Immune Checkpoint Biomarker Panel (17-Plex): BTLA, CD27, CD28, CD40, CD80/B7-1, CD86/B7-2, CTLA-4, GITR, GITRL, HVEM, ICOS, LAG-3, PD-1, PD-L1, PD-L2, TIM-3, TLR-2

Indications: Use this panel to investigate T cell activation and exhaustion, and to provide supportive information for assessing the potential suitability of checkpoint inhibitor therapies in cancer and autoimmune conditions.

Acceptable sample type: PLASMA-EDTA

COMMENTS