

## **Self-Pay Directions**

### Alberta Customers:

- Complete this Self-Pay Requisition form by completing the Customer Information and checking the requested tests.
- Schedule a Sample Collection Appointment with Tap Labs at 403-860-6540 or online at [info@taplabs.ca](mailto:info@taplabs.ca)
- Once your sample is received at Mitogen, you will receive an electronic invoice to the email address provided on this requisition.
- Once payment is received, the testing will be completed and you will be provided with test results within 7-10 business days.
- Mitogen does not provide status updates so please do not contact us unless your results exceed 12 business days from collection date by emailing [selfpay@mitogendx.com](mailto:selfpay@mitogendx.com)

### Outside of Alberta Customers:

- Complete this Self-Pay Requisition form by completing the Customer Information and checking the requested tests.
- Schedule a Sample Collection Appointment with your local provincial lab – we cannot accept samples from LifeLabs.
- Once your sample is received at Mitogen, you will receive an electronic invoice to the email address provided on this requisition.
- Once payment is received, the testing will be completed and you will be provided with test results within 7-10 business days.
- Mitogen does not provide status updates so please do not contact us unless your results exceed 12 business days from collection date by emailing [selfpay@mitogendx.com](mailto:selfpay@mitogendx.com)

**\*\*Disclaimer: We do not interpret results. You must consult with a physician\*\***

**\*\*\*MitogenDx does NOT book or accept appointments for sample collection / venipuncture. Southern Alberta - contact TapLabs (taplabs.ca). All other locations, contact your local laboratory.**

**\*\*\*Complete Customer Information and Laboratory Information are REQUIRED for samples to be processed. Completion of this form indicates your consent to have test results sent to the email listed under "Customer Information". See Pages 2, 3, and 4 for a list of Diagnostic Tests. Please mark ALL tests to be done.**

**CUSTOMER INFORMATION**

**Customer Name (Surname, First name)**

**Surname**

**First Name**

**Email**

**Sex** Female Male

**Personal Health Number**

**Date of Birth (dd/mm/yy)**

**LABORATORY INFORMATION**

**Laboratory Name**

**Phone Number**

**Fax Number**

**Email address**

**Comments**

**PAYMENT & RECEIVING RESULTS**

**You will be contacted directly by MitogenDx for payment when your sample is received.**

**Results** typically follow within 10 working days after receipt of sample AND payment. Results will be sent to the customer email above.

**SAMPLE INFORMATION**

**Sample Type** Serum Plasma CSF

**Time and Date Collected (dd/mm/yy)**

**Reason for Testing / Comments**

**Sample Attestation**

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

**SAMPLE COLLECTION**

**Cytokine/IL-6 Sample Collection Procedure:**

1. 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.
2. Within 30 minutes from collection, centrifuge at 1000 x g for 10 minutes at 4°C. Immediately transfer/aliquot 0.3 - 1.0 mL cell-free plasma or serum to a small tube (~3mL or smaller tube such as a false-bottom tube).
3. Freeze the sample (≤ -20°C) and ship on dry ice (consider including a temperature monitoring device in the shipment).

**Complement (page 3) Sample Collection Procedure:**

1. Serum samples (0.5 - 1.0 mL) obtained from blood collected in a Serum Separator Tube (SST) are preferred. For plasma samples (0.5 - 1.0 mL), plasma EDTA is preferred.
2. Please send serum (separated from clot) and EDTA-plasma (separated from cells) frozen on dry ice.

**General (page 4) Sample Collection Procedure:**

1. 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.
2. 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).
3. Freeze the sample (≤ -20°C) and ship on dry ice (consider including a temperature monitoring device in the shipment).

**SENDING SAMPLES & SHIPPING**

**Sending Samples:** Please ensure your samples are scheduled to arrive before 3pm on Friday. Please do not send samples on weekends or holidays as MitogenDx will be closed and SAMPLES WILL NOT BE RECEIVED UNTIL THE FOLLOWING WEEK.

Shipments from any shipping company are accepted (including Purolator and FedEx). Tracking numbers should be retained for delivery confirmation. If problems arise or your package is not delivered promptly please contact your shipping company.

Shipping: See Shipping Instructions. Please send properly labeled and packaged samples with this requisition to the address below.

**CONTACT INFO**

**MitogenDx Laboratory**

3415C 3rd Ave NW  
 Calgary, AB, T2N 0M4

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

Email: [lab@mitogendx.com](mailto:lab@mitogendx.com)

Visit our website: [www.mitogendx.com](http://www.mitogendx.com)

**\*\*\*MitogenDx does NOT book or accept appointments for sample collection / venipuncture. Contact your local laboratory\*\*\***

Testing is performed by our affiliate laboratory, Eve Technologies. Eve Technologies is certified by Centers for Medicare & Medicaid Services (CMS) as a High Complexity International Laboratory under the Clinical Laboratory Improvement Amendments (CLIA); specialty Diagnostic Immunology, subspecialty General Immunology. These are Laboratory Developed Tests (LDT) and do not appear on the lists of tests in the Federal Register and have not been reviewed by the U.S. Food and Drug Administration.

### IMMUNE BIOMARKER TEST REQUISITION

Medical Personnel: Please mark ALL tests to be done

**Cytokine, Chemokine, Growth Factor 71-Plex Clinical:** 6Ckine, BCA-1, CTACK, EGF, ENA-78, Eotaxin, Eotaxin-2, Eotaxin-3, FGF-2, Flt-3 Ligand, Fractalkine, G-CSF, GM-CSF, GRO $\alpha$ , I-309, IFN $\alpha$ 2, IFN $\gamma$ , IL-1 $\alpha$ , IL-1 $\beta$ , IL-1RA, IL-2, IL-3, IL-4, IL-5, IL-6, IL-7, IL-8, IL-9, IL-10, IL-12(p40), IL-12(p70), 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-27, IL-29A, IL-33, IP-10, LIF, MCP-1, MCP-2, MCP-3, MCP-4, M-CSF, MDC, MIG, MIP-1 $\alpha$ , MIP-1 $\beta$ , MIP-1 $\delta$ , PDGF-AA, PDGF-AB/BB, RANTES, sCD40L, SCF, SDF-1 $\alpha$ + $\beta$ , TARC, TGF $\alpha$ , TNF $\alpha$ , TNF $\beta$ , TPO, TRAIL, TSLP, VEGF-A

**Indications:** Use this test when identifying relevant therapy targets, mechanism of disease is unknown, arthritis, macrophage activation syndrome (MAS), Hemophagocytic lymphohistiocytosis (HLH), sepsis / toxic shock, necrotizing fasciitis, admitted meningitis, admitted pneumonia, Kawasaki syndrome, prolonged or periodic fever, severe or chronic inflammation, organ dysfunction. Also useful in investigation of 'cytokine storm' seen in HLH and related conditions.

**Reference Intervals available for PLASMA-EDTA samples, SERUM, and CSF samples**  
**Results presented with cytokine groupings (immune signatures)**

**Focused Cytokine, Chemokine, Growth Factor 15-Plex Clinical:** GM-CSF, IFN $\gamma$ , IL-1 $\beta$ , IL-1RA, IL-2, IL-4, IL-5, IL-6, IL-8, IL-10, IL-12(p40), IL-12(p70), IL-13, MCP-1, TNF- $\alpha$

**Indications:** Use this test when identifying relevant therapy targets in severe or chronic inflammation, and 'cytokine storm' seen in COVID-19.  
**Reference Intervals available for PLASMA-EDTA samples, SERUM, and CSF samples**

**Soluble Cytokine Receptor 14-Plex:** sCD30, sEGFR, sgp130, sIL-1R1, sIL-1RII, sIL-2R $\alpha$ , sIL-4R, sIL-6R, sRAGE, sTNF RI, sTNF RII, sVEGF R1, sVEGF R2, sVEGF R3

**Indications:** Use this test when identifying relevant therapy targets, mechanism of disease is unknown, arthritis, macrophage activation syndrome (MAS), Hemophagocytic lymphohistiocytosis (HLH), sepsis / toxic shock, necrotizing fasciitis, admitted meningitis, admitted pneumonia, Kawasaki syndrome, prolonged or periodic fever, severe or chronic inflammation, organ dysfunction.

**Reference Intervals available for PLASMA-EDTA samples and CSF samples**

**Serum Amyloid A (SAA) / ADAMTS13 Panel (2 Plex)**

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

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

**Complement Profile Panel (13-Plex):** Adipsin (Factor D), C1q, C2, C3, C3b/iC3b, C4, C5, C5a, Factor B, Factor H, Factor I, Mannose Binding Lectin (MBL)

**Indications:** Use this test for acute phase inflammatory detection.

**Reference Intervals available for PLASMA-EDTA samples.**

\*This test has not been assessed under CLIA.

**Interferon Panel (9-Plex):** IFN $\alpha$ 2, IFN $\beta$ , IFN $\gamma$ , IFN $\gamma$ R1, IFN $\epsilon$ , IFN $\lambda$ 1, IFN $\lambda$ 2, IFN $\lambda$ 3, IFN $\omega$

**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.**

### COMMENTS

LONG COVID-19 BIOMARKER TEST REQUISITION

**Long COVID Angiogenesis & Cardiovascular Biomarker Panel (18-Plex) (LDT):** 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.**

**SAA / Cardiovascular Disease Panel (6-Plex) (LDT):** 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.**

\* Plasma EDTA  
preferred

COMMENTS

Patient Name

Personal Health Number

COMPLEMENT TEST REQUISITION

**Complement Panel 1 (LDT):** AH50 (serum only), CH50 (serum only), MBL (serum only), sC5b-9 (serum or plasma)

**Complement Panel 2 14-Plex (LDT):** Adipsin, Complement C1q, Complement C2, Complement C3, Complement C3a, Complement C3b/iC3b, Complement C4, Complement C4b, Complement C5, Complement C5a, Factor B, Factor H, Factor I, Mannose-Binding Lectin (MBL)

**Complement Panel 3 (LDT):** C1q autoantibodies, Factor H autoantibodies

**Complement Panel 4 (LDT):** C1 INH protein, C1 INH functional assay

COMMENTS

**GENERAL, LUPUS & SJOGRENS SYNDROME**

**Advanced ANA – Anti-Cellular Antibodies (includes interpretation of HEp-2 Atypical Nuclear, Cytoplasmic and Cell Cycle ICAP Patterns)**

**Systemic Lupus Erythematosus Panel**

Anti-Sm, U1RNP, Ro52/TRIM21, SSA/Ro60, SSB/La, PCNA, dsDNA, Ku, Ribosomal-P, Chromatin

**Anti-dsDNA by Chemiluminescence Immunoassay (CIA)**

Anti-Double Stranded DNA / dsDNA (IgG)

**Anti-Single-Stranded DNA**

Anti-Single Stranded DNA / ssDNA (IgG)

**Anti-Histone (Drug-Induced Lupus, Systemic Rheumatic Diseases)**

Anti-Histone (IgG)

**Anti-DFS70 (Dense Fine Speckled70/ LEDGF)**

Anti-Dense Fine Speckled70 (anti-DFS70) / LEDGF

**Sjögren Syndrome/Disease Panel**

Anti-SSA/Ro60, SSB/La, Ro52/TRIM21

**Anti-Nuclear Envelope/Membrane Test Panel (LDT)** Anti-TPR, gp210,

Lamin B

**Cytoplasmic Dot Panel (LDT)**

Anti-GW182, GE-1, Ago2, Early Endosome Antigen 1 (EEA-1)

**SCLERODERMA & SKIN**

**Scleroderma / Systemic Sclerosis Panel**

Anti-CENP A + B, Topo-I/Scl-70, RP11, RP155, Anti fibrillarin/U3RNP, Th/To/hPOP1, Ku, PDGFR, Ro52/TRIM21, PM/Scl-75, PM/Scl-100, NOR90/Hubf

**Bullous & Autoimmune Skin Disease Panel**

Anti-BP180, BP230, Desmoglein-1, Desmoglein-3

**Nucleolar Autoantibody Panel**

Anti-RNA polymerase III, fibrillarin/U3RNP, Th/To, Ku, PM/Scl-75, PM/Scl-100, NOR90/Hubf

**ARTHRITIS**

**Arthritis Panel** Anti-Citrullinated peptide 3 (CCP-3)

**MUSCLE & MYOPATHY**

**Autoimmune Myopathy / Myositis Panel PLUS**

Anti-Jo-1, Mi2- $\alpha$ , Mi2- $\beta$ , MDA5, NXP2, TIF1 $\gamma$ , PL7, PL12, PM/Scl75, PM/Scl100, Ku, SRP, EJ, OJ, Ro52/TRIM21, SAE1, HMGCRC, cN-1A/Mup44

**Anti-SMN Complex**

SMN1, Gemin 3, P80, RuvBL1, RuvBL2 (LDT)

**Anti-Acetylcholine Receptor (AChR) / Myasthenia Gravis**

Anti-Acetylcholine Receptor (AChR)

**ANTIPHOSPHOLIPID SYNDROME**

**Anti-Domain 1 Beta-2 Glycoprotein 1 (D1  $\beta$ 2GP1) (IgG only)**

**Anti-Cardiolipin (IgG + IgM)**

**Anti-Phosphatidylserine / Prothrombin Complex (PS/PT) (IgG + IgM)**

**NEPHRITIS & IBD**

**Anti-PLA2R**

Anti-phospholipase A2 receptor (PLA2R) Cell Based Assay

Anti-phospholipase A2 receptor (Q-PLA2R) Quantitative ELISA (for more precise quantitation and follow-up)

**Anti-THSD7A (thrombospondin)**

Anti-thrombospondin type-1 domain-containing protein 7A (THSD7A)

**Uromodulin**

Uromodulin

**ASCA (IgG + IgA) Inflammatory Bowel Disease**

Anti-Saccharomyces cerevisiae (ASCA IgG/IgA)

**LIVER**

**Autoimmune Liver Disease Panel PLUS (serum only)**

Anti-AMA-M2, M2-3EBPO, LKM, SLA, SP100, gp210, PML, LC-1, Ro52/TRIM21, SSA/Ro60, Topo-I / Scl-70, Centromere A (CENP A), Centromere B (CENP B), PDH

**LUNG**

**Interstitial Lung Disease (ILD) Antibody Panel**

Anti-CENP A+B, Topo-I/Scl-70, RP11, RP155, Anti fibrillarin/U3RNP, Th/To/hPOP1, Ku, PDGFR, Ro52/TRIM21, PM/Scl-75, PM/Scl-100, Nor90/Hubf, Jo-1, Mi2- $\alpha$ , Mi2 $\beta$ , MDA5, NXP2, TIF1 $\gamma$ , PL7, PL12, SRP, EJ, OJ

**Krebs von den Lungen (KL-6) (LDT)**

**Alveolar Proteinosis (Anti-GMCSF) (LDT)**

Anti-Granulocyte-macrophage colony-stimulating factor (GM-CSF)

**ENCEPHALITIS**

**Anti-NMDA (NR1) Receptor**

Anti-glutamate receptor (type NMDA)

**Anti-DPPX (dipeptidyl aminopeptidase-like 6)**

Anti-Dipeptidyl aminopeptidase-like protein 6

**Anti-VGKC (Voltage gated potassium channel), LGI1 & CASPR2**

Anti-Contactin-associated protein 2 (CASPR2) & Anti-Leucine-rich glioma-inactivated protein 1 (LGI1)

**Anti-GABA<sub>B</sub> Receptor**

Anti- $\gamma$ -amino-butyric acid Receptor (GABA<sub>B</sub>)

**Anti-AMPA Receptor**

Anti-glutamate receptor (type AMPA1/2)

**NEURO**

**Neurological Disease Test Panel (IgG +IgM) (Serum only)**

Anti-GM1, GM2, GM3, GD1a, GD1b, GT1b, GQ1b

**Neuromyelitis Optica Spectrum Disorder (NMOSD) (Anti-Aquaporin 4 & MOG)**

Anti-Aquaporin 4 (AQP4 / NMO), Anti-Myelin Oligodendrocyte Glycoproteins (MOG)

**Anti-Myelin Associated Glycoproteins (MAG) (Serum only)**

**Anti-GAD 65 (Glutamic Acid Decarboxylase)**

**High-Sensitivity Neurofilament (heavy chain) (LDT) (pNF-H)**

**High-Sensitivity Neurofilament (light chain) (LDT) (pNF-L)**

**Idiopathic Ataxia/ Peripheral Neuropathy Anti-MPP-1 (LDT)**

Anti-M Phase Phosphoprotein 1/KIF20B

**VASCULITIS**

**ANCA (PR3, MPO by BioFlash)**

Anti-neutrophil cytoplasmic antibody (ANCA): perinuclear ANCA (MPO), cytoplasmic ANCA (PR3)

**Atypical ANCA: Anti-Lysosome Associated Membrane Protein 2 (LAMP2), Anti-Elastase (LDT)**

**CANCER**

**Cancer-Associated Autoantibody Panel (LDT)**

Anti-CENP-F1, Anti-CENP-F4, Anti-p53

**Paraneoplastic Disease Panel PLUS**

Anti-Amphiphysin, Ri (NOVA-1), Yo, Hu, PNMA2 (Ma2/Ta), CV2.1, Recoverin, SOX1, Titin, Zic4, GAD65, Tr (DNER)

**SPECIALIZED/OTHER**

**Sleep Disorder (anti-IgLN5)**

Anti-immunoglobulin-like cell adhesion molecule 5 (IgLN5)

**Anti C1q**

C1q autoantibodies

**COMMENTS**