



Department of Laboratory Medicine

Core Laboratory

Immunology Laboratory

Immunology Requisition

For outside Unity Health Toronto

2nd Floor, Glendale Wing
Room 2G-103
30 The Queensway
Toronto, ON M6R 1B5

Core Lab Specimen Receiving
Phone: 416-530-6273
Fax: 416-530-6559

Immunology Lab
Phone: 416-530-6486 Ext. 3138

Last Name
First Name
MRN
Gender
Birth Date
Health Card #

Referring physician

Name
CPSO #
Billing #
Phone
Fax

Referring institution

Name
Address
Phone
Fax

Clinical Information/Additional Comments

Specimen and Request Information (See page 2 for test details)

Form containing checkboxes for SERUM, Anti-nuclear/Anti-cellular antibody (ANA), Celiac Disease, Myositis, Neuromyelitis Optica Spectrum Disorders, and Other tests.

Form containing checkboxes for Anti-mitochondrial antibody (AMA), Anti-smooth muscle antibody (ASM), Anti-parietal cell antibody (APCA), Anti-myeloperoxidase (MPO) antibody, Anti-proteinase 3 (PR3) antibody, Anti-neutrophil cytoplasmic antibodies (ANCA), Beta-2-microglobulin (B2M), Serum free light chains (FLC), Serum protein electrophoresis (SPE), and Immunofixation electrophoresis (IFE).

Form for FLUID collection with checkboxes for Anti-aquaporin-4 antibody, Anti-myelin oligodendrocyte glycoprotein antibody, and Anti-nuclear/Anti-cellular antibody: Patterns by IIFA method.

Form for URINE collection with checkboxes for Immunofixation electrophoresis, Urine (Bence Jones Protein).

SPECIMEN REQUIREMENTS

- Urine: Store at 4°C and send within a week of collection.
Other body fluids (e.g., CSF): Minimum 0.5 mL in small sterile tube; store below -20°C and send frozen.
Serum: Minimum 1.0 mL is required for SPE/IFE; store at 4°C and send within a week of collection.

OTHER TEST REQUESTS

For inquiries regarding test requests that are not on this requisition, please contact Dr. Maria Pasic (Immunology Lab Director) at Maria.Pasic@unityhealth.to

INVOICING INQUIRIES

Please contact Aileen Mendoza, Laboratory Administrative Assistant at Aileen.Mendoza@unityhealth.to or 416-530-6267.

RESULTS

Report will be faxed to the fax number you provided on the requisition.

SPECIMEN TRANSPORT

- **Air freight:** Use overnight delivery. Samples should be frozen until shipment. Send with ice packs (dry ice is not necessary).

Test Details

Anti-nuclear/Anti-cellular antibody (ANA)

- **Screen by ELISA method**
Screens for antibodies against SS-A, SS-B, Sm, RNP/Sm, Scl-70, Jo-1, dsDNA, histones, ribosomal P proteins, and centromeres. Extractable nuclear antigen (ENA) will be performed if screen is positive.
Method: ELISA
Turn-around-time: 4 days
- **Patterns by indirect immunofluorescence (IIFA) method on serum and body fluids**
Method: IIFA using HEp20-10 cell line. Reported titre: 1:80, 1:160, 1:320, greater than 1:320.
Turn-around-time: 7 days
- **Extractable nuclear antigen (ENA)**
Includes antibodies against nRNP/Sm, Sm, SS-A, Ro-52, SS-B, Scl-70, PM-Scl100, Jo-1, CENP B, PCNA, dsDNA, nucleosomes, histones, ribosomal P-proteins, AMA-M2, DFS70.
Method: Immunoblot
Turn-around-time: 7 days
- **Anti-DFS70 antibody**
Method: Immunoblot
Turn-around-time: 7 days
- **Anti-double stranded DNA (dsDNA) antibody IgG**
Method: ELISA
Turn-around-time: 4 days
- **Autoimmune Liver Diseases profile**
Includes antibodies against AMA-M2, M2-3E (BPO), Sp100, PML, gp210, LKM-1, LC-1, SLA/LP, SS-A, Ro-52, Scl-70, CENP A, CENP B, PGDH. To support the diagnosis of primary biliary liver cirrhosis, increase in transaminases for unclear reasons, suspected autoimmune hepatitis and overlap syndromes.
Method: Immunoblot
Turn-around-time: 7 days
- **Connective Tissue Disease/Lupus profile**
Includes antibodies against Mi-2 β , Ku, nRNP/Sm, Sm, SS-A, Ro-52, SS-B, Scl-70, PM-Scl100, Jo-1, CENP B, PCNA, dsDNA, nucleosomes, histones, ribosomal P-proteins, AMA-M2. To support the diagnosis of Sharp syndrome, lupus, Sjögren's syndrome, progressive systemic sclerosis, polymyositis/ dermatomyositis, overlap syndromes, CREST syndrome and primary biliary cholangitis.
Method: Immunoblot
Turn-around-time: 7 days
- **Sjögren's Syndrome profile**
Includes antibodies against SS-A, SS-B, Ro-52.
Method: Immunoblot
Turn-around-time: 7 days
- **Systemic Sclerosis (Scleroderma; nucleoli) profile**
Includes antibodies against Scl-70, CENP A, CENP B, RP11, RP155, Fibrillarin, NOR90, Th/To, PM-Scl100, PM-Scl75, Ku, PDGFR, Ro-52. To support the diagnosis of progressive systemic sclerosis (diffuse and limited form) and overlap syndromes.
Method: Immunoblot
Turn-around-time: 7 days

Celiac Disease

- IgG and IgA quantitation
Method: Turbidimetric
Turn-around-time: 1 day
- Anti-deamidated gliadin peptide (DGP) antibody IgA
Method: ELISA
Turn-around-time: 7 days
- Anti-deamidated gliadin peptide (DGP) antibody IgG
Method: ELISA
Turn-around-time: 7 days
- Anti-tissue transglutaminase (tTg) antibody IgA
Method: ELISA
Turn-around-time: 7 days
- Anti-tissue transglutaminase (tTg) antibody IgG
Method: ELISA
Turn-around-time: 7 days

Myositis Panel

- **Myositis antibodies**
Includes antibodies against Mi-2 alpha, Mi-2 beta, TIF1g, MDA5, NXP2, SAE1, Ku, PM-Scl100, PM-Scl75, Jo-1, SRP, PL-7, PL-12, EJ, OJ, Ro-52. To support the diagnosis of dermatomyositis/ polymyositis, idiopathic myositis, antisynthetase syndrome and overlap syndromes.
Method: Immunoblot
Turn-around-time: 7 days
- **Anti-Mup44 (cN-1A) antibody (Inclusion body myositis)**
Method: Immunoblot
Turn-around-time: 7 days
- **Anti-HMG-CoA reductase (HMGCR) antibody IgG (Immune mediated necrotizing myopathy)**
Method: ELISA
Turn-around-time: 14 days

Neuromyelitis Optica Spectrum Disorders

- **Anti-aquaporin-4 (AQP4, NMO) antibody**
Method: IIFA using AQP-4 transfected HEK cells as substrate. Dilution at 1:100. Neat for CSF.
Turn-around-time: 7 days
- **Anti-myelin oligodendrocyte glycoprotein (MOG) antibody**
Method: IIFA using MOG-transfected HEK cells as substrate. Dilution at 1:100. Neat for CSF.
Turn-around-time: 7 days

Other

- **Alpha-2-macroglobulin (α 2M)**
Method: Turbidimetric
Turn-around-time: 3 days
- **Anti-cyclic citrullinated peptide (CCP) antibody IgG**
Method: ELISA
Turn-around-time: 7 days
- **Anti-glomerular basement membrane (GBM) antibody IgG**
Method: ELISA
Turn-around-time: 7 days

- **Anti-mitochondrial antibody (AMA), Anti-smooth muscle antibody (ASM), Anti-parietal cell antibody (APCA)**
Method: IIFA using rat stomach/kidney as substrate. Dilution at 1:100.
Turn-around-time: 7 days
- **Anti-myeloperoxidase (MPO) antibody IgG, Anti-proteinase 3 (PR3) antibody IgG**
Method: ELISA
Turn-around-time: 4 days
- **Antineutrophil cytoplasmic antibodies (ANCA) pANCA, cANCA and Atypical patterns are reported.**
Method: IIFA using human neutrophils as substrate
Turn-around-time: 7 days
- **Beta-2-microglobulin (B2M)**
Method: Turbidimetric
Turn-around-time: 3 days
- **Serum free light chains (FLC)**
Includes free kappa, free lambda and free kappa/free lambda ratio
Method: Turbidimetric
Turn-around-time: 3 days
- **Serum Protein Electrophoresis (SPE)**
If an abnormality is detected, gel immunofixation electrophoresis will be performed every 5 years unless there are changes in electrophoresis pattern. Hypogammaglobulinemia and polyclonal gammaglobulinemia will be confirmed by gel immunofixation electrophoresis at initial identification.
Method: Capillary electrophoresis
Turn-around-time: 3 days
- **Immunofixation electrophoresis (IFE)**
Includes identification of monoclonal IgG, IgA, IgM, Kappa and Lambda bands and quantitation. IgE, IgD, Free Kappa and Free Lambda will be tested if warranted. Hypogammaglobulinemia and polyclonal gammaglobulinemia will be confirmed on first detection.
Method: Gel immunofixation electrophoresis
Turn-around-time: 7 days
- **Immunofixation electrophoresis, Urine (Bence Jones Protein)**
Includes free kappa and free lambda quantitation. 24h urine collection preferred. Testing will not be done if urine protein is less than 0.03 g/L.
Method: Gel immunofixation electrophoresis
Turn-around-time: 7 days