

Nephrology Clinical Laboratory Research Compendium



The Nephrology Clinical Laboratory at Cincinnati Children's Hospital Medical Center has expanded its clinical testing menu to now offer testing on a research basis. The CAP and CLIA certified laboratory operates under Good Clinical Laboratory Practice principles to ensure testing can be used to support findings of clinical trials.

CONTACT US

For more information on research or clinical testing, please contact us at:

Phone: **513-636-4530**
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www.cincinnatichildrens.org

Our state of the art laboratory offers a broad testing menu to support research and pharmaceutical projects. We have the capability to perform traditional ELISA'S, multiplexing using the MSD Meso discovery, luminex magnetic bead assays, nephelometry and clinical chemistry.

The Nephrology Clinical Laboratory Research Compendium offers clinical chemistry, therapeutic drug monitoring, immunology, complement quantitation, function and activation, specialty proteins and testing for various forms of thrombotic microangiopathies.

COMPLEMENT SPECIALTY TESTING

Autoantibody Testing

- Factor H Autoantibody
- C3 Nephritic Factor
- Factor B Autoantibody

Functional Testing

- CH50
- Alternative Pathway Functional Assay
- MBL Pathway Functional Assay
- C1 inhibitor Functional Assay

Complement Activation Fragments

- Complement Bb
- Complement Ba
- C3a
- C3c
- C3d
- C4a
- C4d
- iC3b
- SC5b-9

Complement Components (Quantitative)

- C1 inhibitor (quantitative)
- C1q
- C2
- C3
- C4
- C5
- C6
- C7
- C8
- C9
- Factor B
- Factor H
- Factor I
- Properdin
- C4 Binding Protein
- MBL



SERUM PROTEINS (NEPHELOMETRY)

- | | | | |
|---|--|---------------------------------------|-------------------------------------|
| • ADNase B | • CDT (Carbohydrate Deficient Transferrin) | • Prealbumin | • β2-Microglobulin |
| • Albumin | • Ceruloplasmin | • RBP (Retinol Binding Protein) | • β2-Microglobulin urine |
| • Albumin Urine | • Ferritin | • sTfR (Soluble Transferrin Receptor) | • β trace protein |
| • ASO | • Fibrinogen | • Transferrin (for %CDT calculation) | • Ig/light chain, type kappa |
| • Cystatin C | • Fibronectin | • Transferrin | • Ig/light chain, type lambda |
| • Haptoglobin | • Hemopexin | • Transferrin urine | • Ig/light chain, type kappa urine |
| • High Sensitivity CRP (CardioPhase® hsCRP) | • Homocysteine | • α1-Acid glycoprotein | • Ig/light chain, type lambda urine |
| • α1-Antitrypsin | • Lipoprotein(a) | • α1-Microglobulin urine | |
| • AT-III | • Myoglobin | • α2-Macroglobulin | |
| | • Plasminogen | | |

TTP	TDM	IMMUNOLOGY
<ul style="list-style-type: none"> • ADAMTS13 Activity • ADAMTS13 Antibody • ADAMTS13 Inhibitor 	<ul style="list-style-type: none"> • Eculizumab Level • Cyclosporine Level (CsA C0) • Cyclosporine Level (CsA C2) • Sirolimus Level • Tacrolimus Level • Mycophenolic Acid (MPAT) 	<ul style="list-style-type: none"> • PLA2R Autoantibody • IgG • IgG CSF • IgG urine • IgG subclasses 1-4 • IgM • IgM CSF • IgA • IgE • Rheumatoid factor • COVID19 IgG Titer • COVID19 IgG • COVID19 IgA • COVID19 IgM

BIOMARKERS

- | | | |
|---|---|---|
| • Endothelin-1 | • Glucose | • Angiotensin 1-9 |
| • Neutrophil Gelatinase-Associated Lipocalin (NGAL) | • Microalbumin | • Angiotensin I |
| • Kidney Injury Molecule-1 (KIM-1) | • Vascular Endothelial Growth Factor (VEGF) | • Angiotensin II |
| • Creatinine | • Intracellular Adhesion Molecule 1 (CD54) | • Anigiopoitien I |
| • Macrophage Chemoattractant Protein-1 (MCP-1) | • Vascular Cell Adhesion Molecule 1 (CD106) | • Anigiopoitien I |
| • Liver Fatty Acid Binding Protein (LFABP) | • Fibroblast Growth Factor 23 (FGF23) | • Angiotensin converting enzyme-1 (ACE 1) |
| • Transforming Growth Factor-beta 1 (TGFβ-1) | • Matrix Metalloproteinase 9 (MMP9) | • Angiotensin converting enzyme-2 (ACE 2) |
| • Uromodulin (Tamm-Horsfall protein) | • N-acetyl Glucosaminidase (NAG) | • ACE activity |
| • Alpha-1 antitrypsin | • Renin | • Von Willebrand Factor protein VFW |
| • Alpha-1 acid glycoprotein (orosomuroid) | • Aldosterone | • Plasminogen activator inhibitor-1 (PAI-1) |
| • Hepcidin-25 | • Adiponectin | • Tissue plasminogen activator (T-PA) |
| • Troponin T | • Interluekin 6 IL-6 | • Cytokeratin 18 (M65) (M30) |
| • Vitamin D binding protein | • Interluekin 18 IL-18 | • Human CD163 |
| • Adiponectin | • MCP1 | • Human anti-endothelial cell antibody AECA |
| | • Matrix Metalloproteinase 7 (MMP7) | |
| | • Angiotensin 1-7 | |

The above list is not a comprehensive list of biomarkers.
Please contact us for special projects and specific testing needs.

Call for sample processing and shipping instructions at 513-636-4530.