

## Immunology

### Allergic Diseases

Allergy-Phadiatop Inhalant  
Aspergillus Antibody, Immunodiffusion  
Eosinophil Cationic Protein (ECP)<sup>1</sup>  
Eosinophil Count, Blood  
Eosinophil Count, Urine  
Histamine, 24-Hour Urine<sup>1</sup>  
Histamine, Plasma<sup>1</sup>  
Histamine, Random Urine<sup>1</sup>  
Histamine, Whole Blood<sup>1</sup>  
IgE, Total, Serum  
Theophylline  
Tryptase<sup>1</sup>

Quest Diagnostics offers allergy testing for food, pollens (trees, grasses, weeds), drugs, molds, insect venoms, and occupational-related allergens. Please refer to the Quest Diagnostics' Directory of Services for a complete list of specific allergen tests.

### Cytokines

Interleukin-2 (IL-2)<sup>1</sup>  
Interleukin-2 Receptor, EIA<sup>1</sup>  
Interleukin-6<sup>1</sup>  
Tumor Necrosis Factor-Alpha, Highly Sensitive<sup>1</sup>  
Vascular Endothelial Growth Factor (VEGF), ELISA<sup>1</sup>

### Dermatologic Diseases

Bullous Pemphigoid Antigen (BP 180) Antibody<sup>1</sup>  
Desmoglein Antibodies (1 and 3)  
Epidermal Antibodies with Reflex to Titers

### Endocrine Diseases

#### Diabetes

Glutamic Acid Decarboxylase-65 Autoantibodies<sup>1</sup>  
IA-2 Antibody<sup>2</sup>  
Insulin Autoantibody<sup>2</sup>  
Insulin Antibody with Reflex to Titer<sup>2</sup>  
Islet Cell Antibody Screen with Reflex to Titer<sup>2</sup>

#### Thyroid

T3 (Triiodothyronine) Antibody  
T4 (Thyroxine) Antibody  
TBI (Thyrotropin-Binding Inhibitory Immunoglobulin)  
Thyroglobulin Antibody  
Thyroid Peroxidase Antibody (Anti-TPO)  
Thyroid Stimulating Hormone (TSH) Antibody  
Thyrotropin Blocking Antibody  
TSI (Thyroid Stimulating Immunoglobulin)<sup>2</sup>

#### Other

Adrenal Antibody Screen with Reflex to Titer  
Growth Hormone Antibody<sup>2</sup>  
HLA-DR, DQ Phenotype  
HLA-DR4, Flow Cytometry<sup>2</sup>  
21-Hydroxylase Antibody<sup>1</sup>  
Ovarian Antibody Screen with Reflex to Titer, IFA  
PTH Antibody  
Sperm Antibody (IgA, IgG, IgM)<sup>2</sup>

### Gastrointestinal Diseases

#### Celiac Disease

Celiac Disease Comprehensive Panel  
*Includes tissue transglutaminase IgA antibody with reflexes to endomysial IgA antibody screen and titer, gliadin antibody, IgA level with reflex to tissue transglutaminase IgG antibody.*

#### Celiac Disease Panel

*Includes tissue transglutaminase IgA antibody, gliadin antibody, and IgA level.*

#### Endomysial Antibody Screen (IgA) with Reflex to Titer

#### Gliadin Antibody (IgA)

#### Gliadin Antibody (IgG)

#### Gliadin Antibody (IgA, IgG)

#### HLA Typing, Celiac Disease

*Includes DQB1, DQ2, and DQ8.*

#### IgA, Serum

#### Reticulin Antibody (IgA) with Reflex to Titer<sup>2</sup>

#### Tissue Transglutaminase Antibody (IgA)

#### Tissue Transglutaminase Antibody (IgG)

#### Tissue Transglutaminase Antibody (IgG, IgA)

#### Inflammatory Bowel Disease

#### Inflammatory Bowel Disease Differentiation Panel

*Includes Saccharomyces cerevisiae Antibodies (IgA, IgG), and ANCA screen with reflex to titer.*

#### Lactoferrin, Qualitative, Stool

#### Saccharomyces cerevisiae Antibodies (ASCA) (IgA)

#### Saccharomyces cerevisiae Antibodies (ASCA) (IgG)

#### Other Gastrointestinal Diseases (including autoimmune hepatitis)

#### Actin (Smooth Muscle) Antibody (IgG)

#### Gastric Parietal Cell Antibody, ELISA

#### HLA-B27 Antigen

#### HLA-B27, DNA Typing

#### Intrinsic Factor Blocking Antibody

#### Liver Kidney Microsome (LKM-1) Antibody (IgG)

#### Mitochondria M2 Antibody (IgG), EIA

#### Mitochondrial Antibody, IFA

#### Soluble Liver Antigen (SLA) Autoantibody

### Hematologic Diseases

#### Coombs, Indirect (Antibody Screen)

#### Neutrophil Antibody, Flow Cytometry<sup>2</sup>

#### Neutrophil Function, Oxidative Burst

#### Platelet Antibody, Direct, Flow Cytometry<sup>2</sup>

#### Platelet Antibody, Indirect (IgG)

#### Red Cell CD55 and CD59 Expression<sup>1</sup>

### HLA and Transplantation

#### Cyclosporine, LC/MS/MS, Whole Blood

#### Cyclosporine, Monoclonal, Whole Blood, FPIA

#### FISH, X/Y, Post Bone Marrow Transplant

#### HLA Typing, Celiac Disease

#### HLA Typing, Narcolepsy

#### HLA-A Class I DNA Typing

#### HLA-A,B Class I DNA Typing

#### HLA-A,B,C Class I DNA Typing

#### HLA-A,B,C Phenotype

#### HLA-B Class I DNA Typing

HLA-B27 Antigen  
HLA-B27, DNA Typing  
HLA-C Class I DNA Typing  
HLA-DQB1 Class II DNA Typing  
HLA-DR, DQ Phenotype  
HLA-DR, DQ Class II DNA Typing  
HLA-DR4, Flow Cytometry<sup>2</sup>  
HLA-DRB1 Class II DNA Typing  
Immune Cell Function  
Mycophenolic Acid  
Neopterin<sup>1</sup>

## Immunodeficiencies

### Cellular Immunodeficiencies

Lymphocyte Subset Panel 1  
*Includes absolute lymphocyte count, CD19, CD3, CD4, CD8, CD16/CD56, and CD4/CD8 ratio.*

Lymphocyte Subset Panel 2  
*Includes absolute lymphocyte count, CD19, CD3, CD4, CD8, and CD4/CD8 ratio.*

Lymphocyte Subset Panel 3  
*Includes absolute lymphocyte count, CD3, CD4, CD8, and CD4/CD8 ratio.*

Lymphocyte Subset Panel 4  
*Includes absolute lymphocyte count, CD4, CD8, and CD4/CD8 ratio.*

Lymphocyte Subset Panel 5  
*Includes absolute lymphocyte count and CD4.*

Natural Killer Cells<sup>2</sup>  
*Includes absolute lymphocyte count and CD16/CD56.*

T & B Cells, Total

### Complement Deficiencies

Angioedema Panel, Hereditary  
*Includes C1 inhibitor protein and functional C1 inhibitor.*

Angioedema Profile 1  
*Includes C1 inhibitor protein, functional C1 inhibitor, C1q complement component, and C4 complement component.*

C1 Esterase Inhibitor, Protein Quantitation<sup>2</sup>

C1-Inhibitor, Functional

C1q Complement Component

C2 Complement Component<sup>2</sup>

C3 Complement Component

C3, C4, and Total (CH50) Complement

C3d Circulating Immune Complexes

C4 & C3 Complement Group

C4 Activation Panel  
*Includes C4 complement component and C4d fragment.*

C4 Binding Protein<sup>2</sup>

C4 Binding Protein, Plasma<sup>2</sup>

C4 Complement Component

C4d Fragment, EIA<sup>2</sup>

C5 Complement Component

C6 Complement Component

C7 Complement Component<sup>1</sup>

C8 Complement Component

C9 Complement Component<sup>1</sup>

Circulating Immune Complex  
*Includes C4 and C3 complement, C3d circulating immune complexes, and immune complex detection via C1q binding.*

Complement Activation Panel<sup>2</sup>  
*Includes C3 complement component, properdin factor B, and C4d fragment.*

Complement Profile  
*Includes C4 and C3 complement, properdin factor B, and C1q complement.*

Complement, Total (CH50)

Immune Complex Detection by C1q Binding

Mannose Binding Lectin (MBL)

Properdin Factor B (C3 Proactivator)

## Humoral Immunity

Humoral Immune Status Survey

Humoral Immunity Evaluation Panel<sup>2</sup>  
*Includes diphtheria and tetanus toxoid antibodies, Haemophilus influenzae type B IgG antibody, and pneumococcal IgG antibody (6 serotype panel).*

IgA, Serum

IgA Subclasses

IgD, Serum

IgE, Total, Serum

IgG Subclass IgG1

IgG Subclass IgG2

IgG Subclass IgG3

IgG Subclass IgG4

IgG Subclasses and Total IgG

IgG, Serum

IgM, Serum

Immunoglobulin Profile, Serum  
*Includes IgA, IgG, and IgM.*

### Infection- and Vaccine-related Humoral Immunity

Diphtheria Toxoid & Tetanus Toxoid Antibodies

Diphtheria Toxoid Antibody<sup>2</sup>

Diphtheria Toxoid, Pre and Post<sup>2</sup>

Diphtheria Toxoid, Titer to Endpoint<sup>2</sup>

Haemophilus influenzae Type B Antibody (IgG)

Hepatitis B Surface Antibody

Hepatitis B Surface Antigen

Hepatitis C Antibody, EIA

Pneumococcal Antibody (IgG), 12 Serotype Panel<sup>2</sup>  
*Includes types 1, 3, 4, 26(6B), 8, 9(9N), 12(12F), 14, 19(19F), 23(23F), 51(7F), and 56(18C).*

Pneumococcal Antibody (IgG), 4 Serotype Panel (3, 8, 12[12F], 14)<sup>2</sup>

Pneumococcal Antibody (IgG), 4 Serotype Panel (3, 9[9N], 14, 51[7F]), EIA<sup>2</sup>

Pneumococcal Antibody (IgG), 6 Serotype Panel (4,6B,14,19F,23F, 56[18C])<sup>2</sup>

Pneumococcal Antibody (Pneumovax<sup>®</sup> Vaccine Response)

Tetanus Toxoid Antibody (EIA)<sup>2</sup>

## Lymphoproliferative Disorders

Electrophoresis & Immunofixation, Serum with Tracing

Electrophoresis, Protein and Kappa/Lambda, Serum

Electrophoresis, Protein and Total Protein and Tracing, CSF

Electrophoresis, Protein and Total Protein, CSF

Electrophoresis, Protein, 24-Hour Urine & Immunofixation Studies

Electrophoresis, Protein, 24-Hour Urine (with Total Protein)

Electrophoresis, Protein, CSF

Electrophoresis, Protein, CSF, with Tracing

Electrophoresis, Protein, Random Urine & Immunofixation Studies

Electrophoresis, Protein, Random Urine (with Total Protein)

Electrophoresis, Protein, Serum

Electrophoresis, Protein, Serum with Tracing

Electrophoresis, Protein, Urine

Immunofixation with Quantitation of IgA, IgG, and IgM

Immunofixation, Serum

Immunofixation, Urine

Kappa/Lambda Light Chain

Kappa/Lambda Light Chains, Free with Ratio

Surface Light Chains<sup>2</sup>

Viscosity, Serum

## Neurologic Diseases

### Multiple Sclerosis

Albumin & IgG, CSF

IgG Synthesis Rate/Index, CSF

Multiple Sclerosis Panel 1  
*Includes oligoclonal bands (IgG) and IgG synthesis rate/index on CSF.*

## Multiple Sclerosis Panel 2

*Includes oligoclonal bands (IgG), IgG synthesis rate/index, and myelin basic protein on CSF.*

## Myelin Basic Protein<sup>2</sup>

## Oligoclonal Bands (IgG), CSF

## Myasthenia Gravis

### Acetylcholine Receptor Binding Antibody<sup>2</sup>

### Acetylcholine Receptor Blocking Antibody<sup>2</sup>

### Acetylcholine Receptor Modulating Antibody<sup>2</sup>

## Myasthenia Gravis Panel 1

*Includes anti-striated muscle antibody screen with reflex to titer and acetylcholine receptor binding antibody.*

## Striated Muscle Antibody with Reflex to Titer<sup>2</sup>

## Neuropathies

### Anti-Yo & Anti-Hu Panel

*Includes Yo antibody screen with reflex to titer and Hu antibody screen with reflexes to titer and Western blot.*

### Ganglioside Antibody Panel 1

*Includes ganglioside GM-1 (IgG, IgM), asialo-GM-1 (IgG, IgM), GD1b (IgG, IgM), and GQ1b (IgG) antibodies.*

### Ganglioside Antibody Panel 2

*Includes ganglioside GM-1 (IgG, IgM), asialo-GM-1 (IgG, IgM), and GD1b (IgM) antibodies.*

### Ganglioside Antibody Panel 3

*Includes ganglioside GM-1 (IgG, IgM), asialo-GM-1 (IgM), and GD1b (IgM) antibodies.*

### Ganglioside Antibody Panel 4

*Includes ganglioside GM-1 (IgG, IgM), asialo-GM-1 (IgG, IgM), GD1b (IgG, IgM), and GD1a (IgG, IgM) antibodies.*

### Ganglioside Antibody Panel 5

*Includes ganglioside GM-1 (IgG, IgM), asialo-GM-1 (IgG, IgM), and GD1b (IgG, IgM) antibodies.*

### Ganglioside Asialo-GM-1 Antibody (IgG), EIA

### Ganglioside Asialo-GM-1 Antibody (IgM), EIA

### Ganglioside GD1a Antibody (IgG), EIA

### Ganglioside GD1a Antibody (IgM), EIA

### Ganglioside GD1b Antibody (IgG), EIA

### Ganglioside GD1b Antibody (IgM), EIA

### Ganglioside GM-1 Antibodies (IgG and IgM), EIA

### Ganglioside GQ1b Antibody (IgG), EIA

### MAG (Western Blot) and MAG-SGPG Antibodies w/Reflex to MAG, EIA<sup>2</sup>

### Motor & Sensory Neuropathy Evaluation with GQ1B Ab & IFE<sup>2</sup>

### Motor Neuropathy Antibody Panel 1

*Includes ganglioside GM-1 (IgG, IgM), asialo-GM-1 (IgG, IgM), GD1b (IgG, IgM), and MAG-SGPG (IgM) antibodies.*

### Motor Neuropathy Antibody Panel 2

*Includes ganglioside GM-1 (IgG, IgM), asialo-GM-1 (IgG, IgM), GD1b (IgG, IgM), MAG-SGPG (IgM), and MAG (IgM) antibodies and Hu antibodies with reflex to titer and Western blot.*

### Motor Neuropathy Antibody Panel, Serum<sup>2</sup>

*Includes ganglioside GM-1 (IgG, IgM), asialo-GM-1 (IgG, IgM), GD1b (IgG, IgM), GD1a (IgG, IgM), MAG-SGPG (IgM), and MAG (IgM) antibodies.*

### Myelin Associated Glycoprotein (MAG)-SGPG Antibody (IgM)<sup>2</sup>

### Myelin-Associated Glycoprotein (MAG) Antibody (IgM), EIA<sup>2</sup>

### Neuronal Nuclear (Anti-Ri) Ab, IFA with Reflex to Titer and Western Blot<sup>2</sup>

### Neuronal Nuclear (Hu and Ri) Antibodies with Reflex to Titer & Western Blot<sup>2</sup>

### Neuronal Nuclear (Hu) Antibody with Reflex to Titer & Western Blot<sup>2</sup>

### Neuronal Nuclear (Hu) Antibody, IFA, w/Rfx to Titer & Western Blot, CSF<sup>2</sup>

### Paraneoplastic Syndrome Antibody Panel, Serum<sup>2</sup>

*Includes Hu antibody screen with reflexes to titer and Western blot, Yo antibody screen with reflex to titer, and Ri antibody screen with reflexes to titer and Western blot.*

### Purkinje Cell (Yo) Antibody Screen with Reflex to Titer, IFA, CSF<sup>2</sup>

### Purkinje Cell (Yo) Antibody Screen with Reflex to Titer, IFA, Serum<sup>2</sup>

### Sensory & Motor Neuropathy Antibody Panel

*Includes ganglioside GM-1 (IgG, IgM), asialo-GM-1 (IgG, IgM), GD1b (IgG, IgM), GQ1b (IgG), MAG-SGPG (IgM), and MAG (IgM) antibodies.*

### Sensory Neuropathy Antibody Panel 1<sup>2</sup>

*Includes Hu antibody screen with reflex to titer and Western blot, MAG-SGPG (IgM), and MAG (IgM) antibodies.*

### Sensory Neuropathy Antibody Panel 2<sup>2</sup>

*Includes Hu antibody screen with reflex to titer and Western blot, Yo antibody screen with reflex to titer, Ri antibody screen with reflex to titer and Western blot, and MAG-SGPG (IgM) and MAG (IgM) antibodies.*

## Pulmonary Diseases

### Alpha-1 Antitrypsin (AAT) Mutation Analysis<sup>2</sup>

### Alpha-1-Antitrypsin (AAT) Phenotype<sup>2</sup>

### Alpha-1-Antitrypsin (AAT) Quantitation and Mutation Analysis<sup>2</sup>

### Alpha-1-Antitrypsin Quantitation

### Alpha-1-Antitrypsin Quantitation & Phenotype

### Hypersensitivity Pneumonitis Screen<sup>2</sup>

## Rheumatic and Related Systemic Diseases

### Inflammatory Myopathies

#### Jo-1 Antibody

#### PM-Scl Antibody<sup>2</sup>

### Mixed Connective Tissue Disease

#### ENA Screen with Reflex to ENA Antibodies

#### Sm Antibodies

#### Sm and Sm/RNP Antibodies

#### Sm/RNP Antibody

### Rheumatic Fever and Other Cardiovascular Diseases

#### Intercalated Disk Antibodies<sup>2</sup>

#### Mycardial Antibody Screen with Reflex to Titer<sup>2</sup>

### Rheumatoid Arthritis and Other Arthropathies

#### Cartilage Oligomeric Matrix Protein (COMP)<sup>1</sup>

#### C-Reactive Protein (CRP)

#### Cyclic Citrullinated Peptide (CCP) Antibody (IgG)

#### HLA-B27 Antigen

#### HLA-B27, DNA Typing

#### Rheumatoid Arthritis Panel

*Includes rheumatoid factor, ANA screen with reflex to titer and pattern, and C-reactive protein.*

#### Rheumatoid Factor

#### Rheumatoid Factor (IgA)

#### Rheumatoid Factor (IgG)

#### Rheumatoid Factor Screen with Reflex to Titer, Synovial Fluid

### Scleroderma and CREST Syndrome

#### Centromere Antibody Screen with Reflex to Titer

#### PM-Scl Antibody<sup>2</sup>

#### Scleroderma (Scl-70) and Jo-1 Antibodies

#### Scleroderma Antibody (Scl-70)

#### Scleroderma Panel 1

*Includes Scl-70 antibody and centromere antibody screen with reflex to titer.*

#### Scleroderma Panel 2

*Includes ANA screen with reflex to titer and pattern and PM-Scl and Scl-70 antibodies.*

### Sjögren's Syndrome

#### Sjögren's Antibodies (SS-A, [Ro])

#### Sjögren's Antibodies (SS-A, SS-B, [Ro, La])

#### Sjögren's Antibodies (SS-B [La])

### Spondylarthropathies

#### HLA-B27 Antigen

#### HLA-B27, DNA Typing

## Systemic Lupus Erythematosus

ANA Screen (EIA) with Reflex to Titer and Pattern  
Cardiolipin Antibody (IgA)  
Cardiolipin Antibody (IgG)  
Cardiolipin Antibody (IgM)  
Cardiolipin Antibody Screen w/ Reflex to IgG and IgM  
Cardiolipin Antibody Screen w/ Reflex to IgG, IgA, IgM  
Chromatin Antibodies (IgG)  
DNA (DS) Antibodies  
DNA (DS) Antibody, Crithidia IFA w/Reflex to Titer  
 $\beta$ 2-Glycoprotein I Antibody (IgA)  
 $\beta$ 2-Glycoprotein I Antibody (IgG)  
 $\beta$ 2-Glycoprotein I Antibody (IgM)  
 $\beta$ 2-Glycoprotein I Antibodies (IgA, IgG, IgM)  
Histone Antibodies  
Kappa Light Chain, Free  
Kappa/Lambda Light Chains, Free with Ratio and Reflex to Immunofixation  
Lambda Light Chain, Free  
Lupus (SLE) Panel  
*Includes C4 and C3 complement; TPO, rheumatoid factor, SS-A, SS-B, Sm, Sm/RNP, Scl-70, ribosomal P, actin (IgG), and gastric parietal cell antibodies; and reticulin, mitochondrial, dsDNA, ANA, striated muscle, and myocardial antibody screens with reflex to titers.*  
Lupus Erythematosus Panel  
*Includes ANA screen with reflex to titer; dsDNA, histone, Sm, and Sm/RNP antibodies; and CRP.*

PCNA Antibody, IFA  
Phosphatidylserine Antibodies (IgA)  
Phosphatidylserine Antibodies (IgG, IgM)  
Phosphatidylserine Antibodies (IgA, IgG, IgM)  
Ribosomal P Antibody  
Sm Antibodies

## Vasculitis

ANCA Screen with Reflex to C- & P-ANCA Titers and MPO or PR-3 Antibody  
ANCA Vasculitides  
*Includes ANCA, proteinase-3, and myeloperoxidase antibodies.*  
C3d Circulating Immune Complexes  
Cryoglobulin Screen with Reflex to Cryoglobulin Profile, Serum Profile includes % cryocrit, cryocrit immunofixation and immunodiffusion, and rheumatoid factor.  
Glomerular Basement Membrane Antibody (IgG)  
Immune Complex Detection by C1q Binding  
Immune Complex Detection Panel 1  
*Includes C3d circulating immune complexes and immune complex detection by C1q binding.*  
Immune Complex Detection Panel 2  
*Includes C3d circulating immune complexes, immune complex detection by C1q binding, and total complement (CH50).*  
Myeloperoxidase Antibody  
Neutrophil Cytoplasmic Antibody (ANCA) Screen with Reflex to Titer  
Proteinase-3 Antibody

<sup>1</sup>This test is performed using a kit that has not been approved or cleared by the FDA. The analytical performance characteristics of this test have been determined by Quest Diagnostics Nichols Institute. This test should not be used for diagnosis without confirmation by other medically established means.

<sup>2</sup>This test was developed and its performance characteristics determined by Quest Diagnostics Nichols Institute. It has not been cleared or approved by the U.S. Food and Drug Administration. The FDA has determined that such clearance or approval is not necessary. Performance characteristics refer to the analytical performance of the test. Reflex tests are performed at an additional charge.



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