

VASCULITIS • NEPHROLOGY

- 003 ANCA (anti-neutrophil cytoplasmic antibodies)
- 014 Circulating Immune Complexes (CIC)
- 056 MPO (pANCA antibody)
- 057 PR3 (cANCA antibody)
- 270 GBM - Glomerular basement membrane antibody titer, IgG, IgA
- 290 **Nephrology Profile** includes 003, 270

SPECIMEN REQUIREMENTS

Specimen Collection Kits are available free of charge from Immco Diagnostics. Call (800) 537-8378 for an immediate shipment of collection kits. **Specimens need not be refrigerated or frozen.**

Serum Studies: Collect 5-10 ml of blood in a red top or serum separator tube. If possible, separate serum from clot and place into **orange** tube provided. Do not puncture top of orange tube. If separation facilities are not available, the blood can be sent in the tube used for collection.

Genetic Studies: Send uncoagulated whole blood in 2 lavender/purple top tubes. Do not freeze.

Biopsy Studies: When submitting specimens for **immunofluorescence only**, place one biopsy specimen from the edge of the lesion in the **red** capped tube provided with the collection kit and place one biopsy specimen from a normal site in the **purple** tube. These tubes contain a holding solution for immunofluorescence specimens.

When submitting specimens for **routine histological studies (H&E) only**, place one incisional or excisional biopsy specimen in the **green** tube provided with the collection kit or in a tube containing 10% formalin.

When submitting specimens for **immunofluorescence and H&E studies**, take one biopsy specimen from the edge of the lesion and divide it in half. Place one half in the **green** tube provided with the collection kit or in a tube containing 10% formalin for H&E, and place the other half in the **red** tube provided with the collection kit. Take a second biopsy specimen from a normal site and place it in the **purple** tube provided with the collection kit.

For additional information, please consult the Collection & Handling section in the Immco Laboratory Services Directory.

Serum Studies: 2-3 ml serum
Profile Tests: 2-3 ml serum
Biopsy Studies: see above

DERMATOPATHOLOGY • OCULAR PATHOLOGY

- 510 Direct Immunofluorescence (IgG, IgA, IgM, Fibrin, C3, C5b-9, and IgG4)
- 511 Light Microscopy (H&E)
- 512 Light Microscopic consultation
- 513 Hereditary Epidermolysis Bullosa Classification (Collagen IV, Cytokeratin, Collagen VII, laminin).

Special Staining

Differentiation of Bullous Pemphigoid from EBA: Indicated when biopsy is positive for basement membrane zone deposits

- 550 Antigen mapping for localization of Collagen IV & Laminin. Only on Lesional Biopsies.
- 551 Localization of immune deposits by "Induced in vitro split." Only on Normal Biopsies.

ORAL PATHOLOGY

- 510 Direct Immunofluorescence (IgG, IgA, IgM, Fibrin, C3, C5b-9, and IgG4)
- 511 Light Microscopy (H&E)
- 512 Light Microscopic consultation
- 513 Hereditary Epidermolysis Bullosa Classification (Collagen IV, Cytokeratin, Collagen VII, laminin).

BIOPSY SITE SELECTION

Proper biopsy sites for various tests and conditions indicated below.

Direct Immunofluorescence

Vesiculo-bullous diseases

Pemphigus, Pemphigoid, Linear IgA Bullous Dermatitis (LABD), EBA, Herpes Gestationis (HG)

Tissue: skin, mucosa

Site: Perilesional, erythematous adjacent to active or new blister.

For DH, take skin biopsy 3-5 mm away from the active lesion.

Connective tissue disorders

Lupus erythematosus, MCTD, dermatomyositis, scleroderma.

Tissue: skin

Site: Erythematous or active border of new lesion. Take biopsy for

SLE from lesional and non-lesional sun protected skin (buttock).

Lichen Planus and Lichenoid reactions

Tissue: skin, mucosa

Site: take biopsy from a new lesion.

Vasculitis

Tissue: skin

Site: Take biopsy from erythematous, active border of a fresh lesion

(<48 hrs old).

Porphyria/Pseudoporphyria

Tissue: skin

Site: take from a new lesion.

Histopathology (H&E)

In all cases, take biopsy from a lesional site.

CLINICAL INFORMATION

Please note that lack of complete information may delay results.

Suspected Diagnosis _____

Type of Biopsy Skin Oral Other _____

Biopsy Site: Immunofluorescence (IF)

- Lesional _____
- Normal _____
- Perilesional _____

Biopsy Site: Histopathology (H&E)

- Lesional _____

Clinical Data _____

Therapy _____

Serum Results _____

For suspected SLE, check appropriate ACR criteria

- Malar rash
- Discoid rash
- Photosensitivity
- Oral or nasopharyngeal ulceration
- Arthritis
- Serositis (pleuritis or pericarditis)
- Neurologic disorder (psychosis or seizures)
- Renal disorder**
 - Proteinuria (≥ 0.5 g/day)
 - Cellular casts
- Hematologic disorders**
 - Hemolytic anemia
 - Leukopenia $< 4000\text{mm}^3$
 - Lymphopenia $< 1500\text{mm}^3$
 - Thrombocytopenia $< 100,000\text{mm}^3$
- Immunologic disorder**
 - LE cells
 - Anti-DNA antibody
 - Anti-Sm antibody
 - False positive syphilis serology
 - Abnormal antinuclear antibody titer



Immco Diagnostics, Inc.
60 Pineview Drive
Buffalo, NY 14228

800.537.8378
716.691.0466 Fax
info@immco.com
www.immco.com

PATIENT INFORMATION

Last Name _____ First Name _____

Social Security Number _____

Sex M F Race _____

Date of Birth _____ **Specimen Date***

Street _____

City _____ State _____ ZIP _____

Telephone (____) _____ *Required by State and Federal law.

REQUESTING DOCTOR

Last Name _____ First Name _____

UPIN _____ Specialization _____

Street _____

City _____ State _____ ZIP _____

Telephone (____) _____ Fax (____) _____

e-mail _____

Physician Signature _____ *Required by CMS.

BILLING INFORMATION

Send Bill to: Insurance Doctor Lab Credit Card

For insurance billing, provide complete insurance information or send photocopy of patient's insurance card. If not billing insurance, doctor or lab, please include credit card information to ensure prompt results.

Medicare No. if applicable _____

Name/address of Insurance _____

Street _____

City _____ State _____ ZIP _____

Telephone (____) _____ Fax (____) _____

Insurance ID # _____

Group # _____

Subscriber Name _____

Subscriber DOB _____

ICD-9 Code _____

Credit Card # _____ Exp. Date _____

VISA MasterCard AmEx

I accept responsibility for bills related to testing of my specimen:

Patient Signature: _____

For specimen collection kits please call 800.537.TEST or indicate kits required below:

- # ___ Serum Containers
- # ___ Skin/Mucosal Biopsies and Serum (IF and H&E)
- # ___ H&E Biopsy Studies
- # ___ Otology (Hearing Loss)

United States

Immco Diagnostics, Inc. 800.537.8378
60 Pineview Drive +1.716.691.0466 Fax
Buffalo, NY 14228 info@immco.com
+1.716.691.0091 www.immco.com

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RHEUMATOLOGY

Systemic Lupus Erythematosus (SLE)

- 001 ANA titer and pattern on HEp-2 & Mouse kidney
- 002 ANA titer and pattern on HEp-2 only
- 004 dsDNA (nDNA) antibody titer
- 005 ssDNA antibody
- 007 Histone antibody
- 008 Phospholipid antibody; IgG, IgA & IgM
- 011 Rheumatoid Factor (RF); IgG, IgA & IgM
- 012 Ribosomal P antibody
- 013 RNA antibody
- 014 Circulating Immune Complexes (CIC)
- 055 B2 Glycoprotein (B2GP1) antibody; IgG & IgM

Antibodies to Extractable Nuclear (ENA) & Cytoplasmic Antigens

- 040 RNP, Sm, SS-A(Ro), and SS-B(La)
- 042 RNP
- 043 Sm
- 045 SS-A(Ro)
- 046 SS-B(La)
- 047 Scl-70
- 048 Jo-1
- 050 Ku
- 051 PCNA
- 052 PM/Scl
- 070 **CT Profile** includes 001, 004, 007, 011, 040, 047, 048, 050, 051, 052
- 071 **Drug induced LE Profile** includes 001, 004, 007
- 077 **SLE Profile I** includes 001, 004
- 078 **SLE Profile II** includes 001, 004, 040
- 079 **SLE Profile III** includes 001, 004, 007, 011, 040, 047, 048, 050

Scleroderma

- 001 ANA titer and pattern on HEp-2 & mouse kidney
- 005 ssDNA antibody
- 007 Histone antibody
- 042 RNP antibody
- 047 Scl-70 antibody
- 054 Centromere antibody titer
- 062 Centromere IgG ELISA
- 063 RNA Polymerase III
- 075 **Scleroderma Profile** includes 001, 042, 047, 052, 054, 062, 063

Sjögren's Syndrome

- 001 ANA titer and pattern on HEp-2 & Mouse kidney
- 011 Rheumatoid Factor (RF); IgG, IgA & IgM
- 040 RNP, Sm, SS-A(Ro), and SS-B(La)
- 045 SS-A(Ro)
- 046 SS-B(La)
- 088 Jo-1 WB/LB
- 076 **Sjögren's Syndrome Profile** includes 001, 011, 045, 046

Dermato/Polymyositis

- 001 ANA titer and pattern on HEp-2 & Mouse kidney
- 045 SS-A(Ro) antibody
- 048 Jo-1 antibody ELISA
- 049 Mi-2 antibody for dermatomyositis
- 050 Ku for polymyositis/scleroderma overlap
- 052 PM/Scl for myositis
- 053 SRP (Signal Recognition Particle)
- 072 **Complete Myositis Profile** includes 001, 048, 049, 050, 053, 081, 082, 083, 084, 085, 086, 087
- 081 PL 7 (only offered in Profile)
- 082 PL 12 (only offered in Profile)
- 083 EJ (only offered in Profile)
- 084 OJ (only offered in Profile)
- 085 RO-052 (only offered in Profile)
- 086 PM/Scl 75 (only offered in Profile)
- 087 PM/Scl 100 (only offered in Profile)

Relapsing Polychondritis

- 015 Collagen Type II antibody

Rheumatoid Arthritis

- 001 ANA titer and pattern on HEp-2 & Mouse kidney
- 009 Keratin (AKA) antibody titer
- 011 Rheumatoid Factor (RF); IgG, IgA & IgM
- 017 Cyclic Citrullinated Peptides (CCP) IgG antibody
- 147 HLA DR 4 (Erosive Rheumatoid Arthritis)•
- 149 HLA-B27 Genotyping•
- 073 **RA Profile I** includes 001, 011, 017
- 074 **RA Profile II** includes 001, 009, 011, 017
- 069 **RA Profile III** includes 001, 009, 011, 017, 147•, 149•

Vasculitis/Thrombosis

- 003 ANCA (anti-neutrophil cytoplasmic antibodies) titer
- 056 MPO (pANCA) antibody
- 057 PR3 (cANCA) antibody
- 008 Phospholipid antibody; IgG, IgA & IgM
- 055 B2 Glycoprotein (B2GP1) antibody; IgG & IgM
- 058 Phosphatidylserine Antibodies (IgA, IgG, IgM)
- 059 Prothrombin Antibodies (IgG, IgM)
- 060 **Antiphospholipid Syndrome (APS) Panel I** includes 008, 055, 058

- 061 **Pre-transplant Thrombotic Risk Screen/APS II** includes 008, 055, 058, 059

- 014 Circulating Immune Complexes (CIC)
- 016 Oxidized LDL (oxLDL) antibody
- 270 GBM (Glomerular basement membrane) antibody titer
- 080 **Vasculitis Profile** includes 003, 008, 014, 270

GASTROENTEROLOGY • HEPATOLOGY

Celiac Disease (CD)

- 100 Endomysial (EMA) IgA antibody titer
- 110 Endomysial (EMA) IgG antibody titer
- 101 Reticulin (ARA) IgA antibody titer
- 102 Deamidated Gliadin (Celiac G+) antibody: IgA & IgG
- 108 Tissue Transglutaminase (tTG) IgA antibody
- 111 Tissue Transglutaminase (tTG) IgG antibody
- 150 HLA DQ α1*0501, β1*0201•
- 401 IgA Levels
- 120 **CD Profile I** includes 100, 108
- 121 **CD Profile II** includes 100, 101, 102, 108
- 180 **CD Profile III** includes 100, 102, 108
- 126 **IgA-deficient CD Profile** includes 102, 110, 401
- 130 **Complete CD Profile** includes 100, 102, 108, 150•

Inflammatory Bowel Disease (IBD)

- 003 ANCA (anti-neutrophil cytoplasmic antibodies) titer
- 164 ASCA (Anti-Saccharomyces Cerevisiae) IgG & IgA ab
- 151 BPI Antibodies (ANCA)
- 155 Pancreas antibody titer
- 162 Intrinsic Factor antibody
- 214 Gastric Parietal Cell antibody titer
- 181 **IBD Profile I** includes 003, 155, 164
- 182 **IBD Profile II** includes 003, 100, 102, 108, 155, 164
- 187 **Gastrointestinal Profile** includes 003, 100, 102, 164
- 188 **Autoimmune Pancreatitis Panel** includes 001, 011, 400, 407

Autoimmune Liver Diseases

- 001 ANA titer and pattern on HEp-2 & Mouse kidney
- 152 AMA mitochondrial antibody titer
- 153 ASMA smooth muscle antibody titer
- 154 AMA & ASMA antibody titer
- 155 Pancreas antibody titer
- 156 LKM (liver-Kidney microsomal) antibody titer
- 163 SP-100 antibody titer
- 165 LKM1 antibody ELISA
- 166 SP 100 IgG ELISA
- 167 GP 210 IgG ELISA
- 168 Soluble Liver Antigen (SLA) ELISA
- 169 LC-1
- 170 Asialo GlycoProtein Receptor (ASGP-R)ELISA
- 171 Actin IgG ELISA
- 172 Actin IgA (F-Actin) ELISA
- 170 Asialo GlycoProtein Receptor (ASGP-R)ELISA
- 184 **Comprehensive Autoimmune Hepatitis Profile** includes 001, 003, 146, 147, 154, 168, 169, 170, 171, 172, 400
- 185 **PBC Profile** includes 001, 152, 166, 167

Pernicious Anemia

- 162 Intrinsic Factor antibody
- 214 Gastric Parietal Cell antibody titer
- 242 **Pernicious Anemia Profile** includes 162, 214

ENDOCRINOLOGY AND INFERTILITY

Type 1 Diabetes (IDDM)

- 215 Islet cell antibody titer
- 221 IA-2 Antibody ELISA
- 222 Glutamic Acid Decarboxylase (GAD) ELISA
- 223 **Diabetes Profile** includes 143•, 144•, 145•, 215, 221, 222

Thyroid

- 216 Thyroglobulin (Tg) antibody
- 217 Thyroid Peroxidase (TPO) microsomal antibody
- 218 **Thyroid Profile** includes 216, 217

Adrenal

- 213 Adrenal antibody titer

Parathyroid

- 219 Parathyroid antibody titer

- 240 **Endocrine Profile** includes 213, 214, 215, 216, 217, 219, 221, 222

Infertility

- 008 Phospholipid antibody; IgG, IgA & IgM
- 490 Ovary antibody titer
- 491 Testes antibody titer
- 492 Spermatozoa antibody titer
- 495 **Infertility Profile** includes 008, 490, 491, 492

Please Note: Test codes listed are categorized by disease association and are not necessarily in numerical order. Tests noted in blue are profiles.

- **Genetic Tests:**.....2 tubes uncoagulated whole blood

IMMUNOHEMATOLOGY

- 136 Platelet Antibody Screen
- 137 Platelet Autoantibodies
- 138 Heparin Dependant Antibody (PF4 IgG ELISA)
- 139 Neonatal Alloimmune Thrombocytopenia (NAIT Screen HPA1a)

CARDIOLOGY

- 008 Phospholipid antibody; IgG, IgA & IgM
- 016 Oxidized LDL (oxLDL) antibody
- 431 Heart antibody titer
- 205 **Cardiac Profile** includes 008, 016, 431

IMMUNOGLOBULIN/COMPLEMENT

- 400 IgG
- 401 IgA
- 402 IgM
- 405 C3 a,C/a,A
- 406 C4
- 407 IgG4

TRANSPLANT IMMUNOLOGY

- 131 Organ Transplant Candidate (HLA antibody Screen & Typing: A, B Bw, DR, DQ, DRw- low resolution/ABO /Pretransplant thrombotic risk assessment)
- 132 Deceased Donor Evaluation (HLA Typing: A, B Bw, DR, DQ, DRw- Low resolution/ABO /Lymphocyte crossmatch)
- 133 Living Donor for Organ Transplant (HLA antibody Screen & Typing: A, B Bw, DR, DQ, DRw –low resolution/ABO / Lymphocyte crossmatch)
- 134 Bone marrow Transplant Candidate/Donor (HLA antibody Screen & Typing: A, B Bw, Cw, DR, DQ, DRw – High resolution)
- 135 Donor Specific Antibodies
- 142 Immunknow™ Immune Cell Function Assay

IMMUNOGENETICS

Pharmacogenetics/Ocular Immunogenetics

- 140 HLA B *5701* (HIV/Abacavir Hypersensitivity)

Disease Associations•

- 143 HLA DQ 2 (Diabetes)
- 144 HLA DQ 6 (Diabetes/Narcolepsy)
- 145 HLA DQ 8 (Diabetes)
- 146 HLA DR 3 (AIH, Addison's, Graves Disease)
- 147 HLA DR 4 (Erosive Rheumatoid Arthritis)
- 148 HLA DR 15 (Narcolepsy)
- 149 HLA B27 (Ankylosing Spondylitis)
- 150 HLA DQ a1 *501*, b1 *0201*

OTOLOGY

Autoimmune Hearing Loss (SNHL)

- 001 ANA titer and pattern on HEp-2 & mouse kidney
- 003 ANCA Anti-neutrophil cytoplasmic antibody titer
- 008 Phospholipid antibody; IgG, IgA & IgM
- 011 Rheumatoid Factor (RF); IgG, IgA & IgM
- 014 Circulating Immune Complex (CIC)
- 015 Collagen Type II antibody
- 340 68kD (hsp-70) antibodies by Line Blot
- 350 PO antibodies by Western blot
- 370 **SNHL Profile I** includes 001, 003, 008, 011, 014, 015, 340, 350
- 375 **SNHL Profile II** includes 340, 350

VESICULO-BULLOUS DISEASES

Pemphigus/Pemphigoid/EBA

- 105 IC and BMZ antibodies (dual substrate)
- 104 IC Paraneoplastic pemphigus antibody titer
- 106 Differentiation of BP from EBA on "split skin"
- 109 Pemphigoid IgG4 antibody
- 112 Desmoglein 1 (DSG1) antibody
- 113 Desmoglein 3 (DSG3) antibody
- 114 Bullous Pemphigoid 180 (BP 180) antibody
- 115 Bullous Pemphigoid 230 (BP 230) antibody
- 122 **Pemphigus/Pemphigoid Profile I** includes 105, 106
- 127 **Pemphigus Profile** includes 105, 112, 113
- 128 **Pemphigoid Profile** includes 105, 106, 114, 115
- 129 **Pemphigus/Pemphigoid Profile II** includes 105, 106, 112, 113, 114, 115

Herpes Gestationis

- 103 H.G. Factor and BMZ on "split skin"

Dermatitis Herpetiformis (DH)

- 100 Endomysial (EMA) IgA antibody titer
- 101 Reticulin (ARA) IgA antibody titer
- 102 Deamidated Gliadin (Celiac G+) antibody: IgA & IgG
- 108 Tissue Transglutaminase (tTG) IgA antibody
- 123 **DH Profile I** includes 100, 108
- 124 **DH Profile II** includes 100, 101, 102, 108
- 125 **DH Profile III** includes 100, 102, 108

Chronic Ulcerative Stomatitis (CUS)

- 107 SES-ANA stratified epithelium specific antinuclear antibody

NEUROIMMUNOLOGY

Neuropathies

- 449 Galactocerebroside antibody; IgG & IgM
- 450 GM1 antibody; IgG & IgM
- 451 GD1b antibody; IgG & IgM
- 452 GQ1b antibody; IgG & IgM
- 453 Asialo GM1 antibody; IgG & IgM
- 454 GD1a antibody; IgG & IgM
- 456 Myelin-associated Glycoprotein (MAG) antibody; IgM
- 464 Sulfated Glucuronyl Paragloboside (SGPG) antibody; IgM
- 455 **Neuropathy Profile** includes 450, 451, 452, 453

Neuropsychiatric Lupus

- 012 Ribosomal P antibody

Paraneoplastic Syndromes

- 500 Hu antibody titer
- 501 Yo antibody titer
- 502 Ri antibody titer
- 506 Tr antibody titer
- 503 **Paraneoplastic Neuronal Profile I** includes 500, 501, 502
- 505 **Motor & Sensory Neuropathy Profile** includes 450, 451, 453, 454, 456, 500, 502
- 507 **Paraneoplastic Neuronal Profile II** includes 500, 501, 502, 506
- 508 **Motor and Sensory Neuropathy Profile II** includes 450, 451, 452, 453, 454, 456, 464, 500, 501, 502, 506
- 509 **Sensory Neuropathy Antibody Panel** includes 456, 464, 500, 501, 502, 506.

Myasthenia Gravis

- 430 Skeletal muscle antibody titer