

NATIONAL IMMUNOLOGY REFERENCE LABORATORY (NIRL)

Department of Laboratory Services

Our Services

National Immunology Reference Laboratory is a division of the Department of Laboratory Services which provides test specializing in autoimmunity and allergy. ELISA (Enzyme-Linked Immunosorbent Assay), IIFA (Indirect immunofluorescence assay), FEIA (Fluoro-enzyme-immunoassay), and LIA (Line-blot assay) are the methodology used to investigate for the detection of auto-antibodies and allergens. This will aid in diagnosing, monitoring and management of therapeutic responses. To provide the best quality services we rely on feedback and day-to-day communication with our client.

Laboratory Personnel

Head of Section: Saifuddien Haji Bagol

Deputy Head of Section: Amirah Batrisyia Zakirah Binti Haji Suhaimi

Staff:

Chief Scientific Officer

Scientific Officer

Medical Scientific Officer

Laboratory Assistants

Address

Central State Laboratory

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Contact Information

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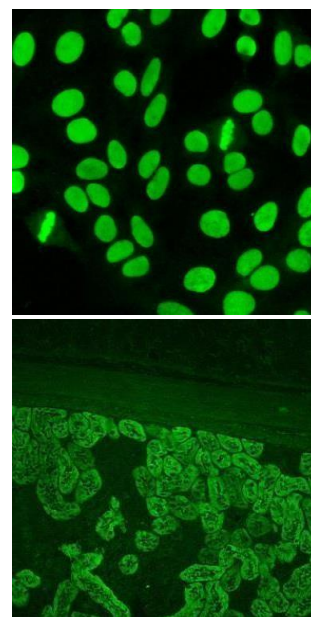
Laboratory: Ext 6349

Operating Hours

Monday to Thursday and Saturday

7.45am - 12.15pm and 1.30pm - 4:30 pm

Fasting month: 8.00am – 2.00pm



TEST CATALOGUE

Test Name	Anti-Cardiolipin Antibody IgG (Anti-ACG)
Specimen	Blood (red top, 6mL or SSTII gold top, 3.5-5mL)
Unacceptable	Haemolysed, Lipemic, Icteric
Method	Enzyme linked immunosorbent assay (ELISA)
Performed	Office hours only
TAT	20 days
Clinical usage	Investigation of inappropriate blood clot formation, to help determine the cause of recurrent miscarriage, or as part of an evaluation for antiphospholipid syndrome or sometimes other autoimmune diseases.

Test Name	Anti-Cardiolipin Antibody IgM (Anti-ACM)
Specimen	Blood (red top, 6mL or SSTII gold top, 3.5-5mL)
Unacceptable	Haemolysed, Lipemic, Icteric
Method	Enzyme linked immunosorbent assay (ELISA)
Performed	Office hours only
TAT	20 days
Clinical usage	Investigation of inappropriate blood clot formation, to help determine the cause of recurrent miscarriage, or as part of an evaluation for antiphospholipid syndrome or sometimes other autoimmune diseases.

Test Name	Anti-Cyclic Citrullinated Peptides Antibody (Anti-CCP)
Specimen	Blood (red top, 6mL or SSTII gold top, 3.5-5mL)
Unacceptable	Haemolysed, Lipemic, Icteric
Method	Enzyme linked immunosorbent assay (ELISA)
Performed	Office hours only
TAT	20 days
Clinical usage	Useful in the early diagnosis of rheumatoid arthritis (RA)

Test Name	<i>Crithidia luciliae</i> Immunofluorescence Test (CLIFT)
Specimen	Blood (red top, 6mL or SSTII gold top, 3.5-5mL)
Unacceptable	Haemolysed, Lipemic, Icteric
Method	Indirect immunofluorescence assay (IIFA)
Performed	Office hours only
TAT	10 days
Clinical usage	Useful in the diagnosis of systemic lupus erythematosus (SLE).

Test Name	Anti – double stranded Deoxyribonucleic Acid (dsDNA) Antibody (Anti-dsDNA)
Specimen	Blood (red top, 6mL or SSTII gold top, 3.5-5mL)
Unacceptable	Haemolysed, Lipemic, Icteric
Method	Enzyme linked immunosorbent assay (ELISA)
Performed	Office hours only
TAT	10 days
Clinical usage	Useful in the diagnosis of systemic lupus erythematosus (SLE).

Test Name	Extractable Nuclear Antigens (ENA) (Anti-SSA, Anti-SSB, Anti-Sm, Anti-RNP, Anti-Scl70 & Anti-Jo-1)
Specimen	Blood (red top, 6mL or SSTII gold top, 3.5-5mL)
Unacceptable	Haemolysed, Lipemic, Icteric
Method	Enzyme linked immunosorbent assay (ELISA)
Performed	Office hours only
TAT	10 days
Clinical usage	Aid in the diagnosis and treatment of Sjögren's syndrome, systemic lupus erythematosus, autoimmune connective tissue disorders, progressive systemic sclerosis, polymyositis and dermatomyositis.

Test Name	Anti-B2-Glycoprotein IgG (Anti-B2G)
Specimen	Blood (red top, 6mL or SSTII gold top, 3.5-5mL)
Unacceptable	Haemolysed, Lipemic, Icteric
Method	Enzyme linked immunosorbent assay (ELISA)
Performed	Office hours only
TAT	20 days
Clinical usage	To help investigate inappropriate blood clot formation; to help determine the cause of recurrent miscarriage; as part of an evaluation for antiphospholipid syndrome (APS)

Test Name	Anti-B2-Glycoprotein IgM (Anti-B2M)
Specimen	Blood (red top, 6mL or SSTII gold top, 3.5-5mL)
Unacceptable	Haemolysed, Lipemic, Icteric
Method	Enzyme linked immunosorbent assay (ELISA)
Performed	Office hours only
TAT	20 days
Clinical usage	To help investigate inappropriate blood clot formation; to help determine the cause of recurrent miscarriage; as part of an evaluation for antiphospholipid syndrome (APS)

Test Name	Anti-Mitochondrial Antibody (AMA)
Specimen	Blood (red top, 6mL or SSTII gold top, 3.5-5mL)
Unacceptable	Haemolysed, Lipemic, Icteric
Method	Indirect immunofluorescence assay (IIFA)
Performed	Office hours only
TAT	20 days
Clinical usage	Aids in the diagnosis of primary biliary cirrhosis. Low titres of AMA may be detected in other liver disorders which include chronic active hepatitis and cryptogenic cirrhosis

Test Name	Anti-Smooth Muscle Antibody (ASMA)
Specimen	Blood (red top, 6mL or SSTII gold top, 3.5-5mL)
Unacceptable	Haemolysed, Lipemic, Icteric
Method	Indirect immunofluorescence assay (IIFA)
Performed	Office hours only
TAT	20 days
Clinical usage	Useful in the diagnosis of autoimmune hepatitis type 1 (AIH-1)

Test Name	Anti-Parietal Cell Antibody (APCA)
Specimen	Blood (red top, 6mL or SSTII gold top, 3.5-5mL)
Unacceptable	Haemolysed, Lipemic, Icteric
Method	Indirect immunofluorescence assay (IIFA)
Performed	Office hours only
TAT	20 days
Clinical usage	APCA occurs in the serum of 90% of patients with autoimmune pernicious anaemia

Test Name	MSK Panel (Anti-Mitochondrial Antibody (AMA), Anti-Smooth Muscle Antibody (ASMA), and Anti-Parietal Cell Antibody (APCA)),
Specimen	Blood (red top, 6mL or SSTII gold top, 3.5-5mL)
Unacceptable	Haemolysed, Lipemic, Icteric
Method	Indirect immunofluorescence assay (IIFA)
Performed	Office hours only
TAT	20 days
Clinical usage	AMA: Aids in the diagnosis of primary biliary cirrhosis. Low titres of AMA may be detected in other liver disorders which include chronic active hepatitis and cryptogenic cirrhosis ASMA: Useful in the diagnosis of autoimmune hepatitis type 1 (AIH-1) APCA: Occurs in the serum of 90% of patients with autoimmune pernicious anaemia

Test Name	Anti-Liver Kidney Microsomal Antibody (LKM)
Specimen	Blood (red top, 6mL or SSTII gold top, 3.5-5mL)
Unacceptable	Haemolysed, Lipemic, Icteric
Method	Indirect immunofluorescence assay (IIFA)
Performed	Office hours only
TAT	20 days
Clinical usage	Used as a diagnostic marker for Autoimmune Hepatitis Type 2 (AIH-2).

Test Name	Anti-Neutrophil Cytoplasmic Antibody (ANCA)
Specimen	Blood (red top, 6mL or SSTII gold top, 3.5-5mL)
Unacceptable	Haemolysed, Lipemic, Icteric
Method	Indirect immunofluorescence assay (IIFA)
Performed	Office hours only
TAT	20 days
Clinical usage	Useful in the diagnosis of autoimmune vasculitis diseases such as Wegener's granulomatosis, microscopic polyngiitis, polyarteritis nodosa and Churg-Strauss Syndrome. NOTE: Not all specimens positive for P-ANCA are positive for Anti-MPO and not all specimens positive for C-ANCA are positive for Anti-PR3 antibody.

Test Name	Myeloperoxidase Antibody (Anti-MPO)
Specimen	Blood (red top, 6mL or SSTII gold top, 3.5-5mL)
Unacceptable	Haemolysed, Lipemic, Icteric
Method	Enzyme linked immunosorbent assay (ELISA)
Performed	Office hours only
TAT	20 days
Clinical usage	Useful in the diagnosis of autoimmune vasculitis diseases such as Wegener's granulomatosis, microscopic polyngiitis, polyarteritis nodosa and Churg-Strauss Syndrome. NOTE: Not all specimens positive for P-ANCA are positive for Anti-MPO and not all specimens positive for C-ANCA are positive for Anti-PR3 antibody.

Test Name	Proteinase 3 Antibody (Anti-PR3)
Specimen	Blood (red top, 6mL or SSTII gold top, 3.5-5mL)
Unacceptable	Haemolysed, Lipemic, Icteric
Method	Enzyme linked immunosorbent assay (ELISA)
Performed	Office hours only
TAT	20 days
Clinical usage	Useful in the diagnosis of autoimmune vasculitis diseases such as Wegener's granulomatosis, microscopic polyngiitis, polyarteritis nodosa and Churg-Strauss Syndrome. NOTE: Not all specimens positive for P-ANCA are positive for Anti-MPO and not all specimens positive for C-ANCA are positive for Anti-PR3 antibody.

Test Name	Anti-Nuclear Antibody (ANA)
Specimen	Blood (red top, 6mL or SSTII gold top, 3.5-5mL)
Unacceptable	Haemolysed, Lipemic, Icteric
Method	Indirect immunofluorescence assay (IIFA)
Performed	Office hours only
TAT	10 days
Clinical usage	A positive ANA result usually occurs in patients with autoimmune disorders such as SLE, mixed connective tissue disease (MCTD), RA, Sjogren's syndrome (SS), and progressive systemic sclerosis (PSS). A negative result does not exclude presence of autoimmune disease.

Test Name	Anti-Thyroglobulin Antibody (Anti-TG)
Specimen	Blood (red top, 6mL or SSTII gold top, 3.5-5mL)
Unacceptable	Haemolysed, Lipemic, Icteric
Method	Enzyme linked immunosorbent assay (ELISA)
Performed	Office hours only
TAT	20 days
Clinical usage	Useful in the diagnosis of Grave's disease, Hashimoto's thyroiditis

Test Name	Anti-Thyroid-Peroxidase Antibody (Anti-TPO)
Specimen	Blood (red top, 6mL or SSTII gold top, 3.5-5mL)
Unacceptable	Haemolysed, Lipemic, Icteric
Method	Enzyme linked immunosorbent assay (ELISA)
Performed	Office hours only
TAT	20 days
Clinical usage	Useful in the diagnosis of Grave's disease, Hashimoto's thyroiditis

Test Name	Anti-N-methyl-D-aspartate-receptor (NMDAR) Antibody (Anti-NMDAR)
Specimen	Blood (red top, 6mL or SSTII gold top, 3.5-5mL) CSF (Sterile bottle)
Unacceptable	Haemolysed, Lipemic, Icteric
Method	Indirect immunofluorescence assay (IIFA)
Performed	Office hours only
TAT	10 days
Clinical usage	Aids in the diagnosis and treatment of autoimmune encephalitis

Test Name	Anti-Thyroid Stimulating Hormone Receptors Antibody (Anti-TSHR)
Specimen	Blood (red top, 6mL or SSTII gold top, 3.5-5mL)
Unacceptable	Haemolysed, Lipemic, Icteric
Method	Enzyme linked immunosorbent assay (ELISA)
Performed	Office hours only
TAT	20 days
Clinical usage	Detection or exclusion and management of the treatment of Grave's disease

Test Name	Total Immunoglobulin E (tIgE)
Specimen	Blood (red top, 6mL or SSTII gold top, 3.5-5mL)
Unacceptable	Haemolysed, Lipemic, Icteric
Method	Fluoro-enzyme-immunoassay (FEIA)
Performed	Office hours only
TAT	20 days
Clinical usage	Levels increased in atopic diseases, parasitic diseases and IgE myeloma.

Test Name	Allergy Panel - Seeds, Legumes & Nuts													
Specimen	Blood (red top, 6mL or SSTII gold top, 3.5-5mL)													
Unacceptable	Haemolysed, Lipemic, Icteric													
Method	Fluoro-enzyme-immunoassay (FEIA)													
Performed	Office hours only													
TAT	20 days													
Clinical usage	Aids in the diagnosis of IgE mediate allergic disorders. The ordering and interpretation of specific IgE tests should be made with careful clinical correlation. They are useful for confirming the allergen specificity in patients with clinically documented allergic disease. They may be less effective when used for screening. <table><tr><th colspan="2">Panel Tests</th></tr><tr><td>SIGEF10 - Sesame seed</td><td>SIGEF202 - Cashew nut</td></tr><tr><td>SIGEF13 - Peanut</td><td>SIGEF203 - Pistachio</td></tr><tr><td>SIGEF14 - Soya bean</td><td>SIGEF4 - Wheat</td></tr><tr><td>SIGEF17 - Hazel nut</td><td>SIGEF7 - Oat</td></tr><tr><td>SIGEF20 - Almond</td><td>SIGEF79 - Gluten</td></tr></table>		Panel Tests		SIGEF10 - Sesame seed	SIGEF202 - Cashew nut	SIGEF13 - Peanut	SIGEF203 - Pistachio	SIGEF14 - Soya bean	SIGEF4 - Wheat	SIGEF17 - Hazel nut	SIGEF7 - Oat	SIGEF20 - Almond	SIGEF79 - Gluten
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Test Name	Allergy Panel - Eczema													
Specimen	Blood (red top, 6mL or SSTII gold top, 3.5-5mL)													
Unacceptable	Haemolysed, Lipemic, Icteric													
Method	Fluoro-enzyme-immunoassay (FEIA)													
Performed	Office hours only													
TAT	20 days													
Clinical usage	Aids in the diagnosis of IgE mediate allergic disorders. The ordering and interpretation of specific IgE tests should be made with careful clinical correlation. They are useful for confirming the allergen specificity in patients with clinically documented allergic disease. They may be less effective when used for screening. <table><tr><th colspan="2">Panel Tests</th></tr><tr><td>SIGEF13 - Peanut</td><td>SIGEF4 - Wheat</td></tr><tr><td>SIGEF2 - Milk</td><td>SIGED1 - D. Pteronyssinus</td></tr><tr><td>SIGEF24 - Shrimp</td><td>SIGED201 - Blomia Tropicalis</td></tr><tr><td>SIGEF245 - Egg</td><td>SIGEE1 - Cat dander</td></tr><tr><td>SIGEF3 - Fish</td><td></td></tr></table>		Panel Tests		SIGEF13 - Peanut	SIGEF4 - Wheat	SIGEF2 - Milk	SIGED1 - D. Pteronyssinus	SIGEF24 - Shrimp	SIGED201 - Blomia Tropicalis	SIGEF245 - Egg	SIGEE1 - Cat dander	SIGEF3 - Fish	
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SIGEF24 - Shrimp	SIGED201 - Blomia Tropicalis													
SIGEF245 - Egg	SIGEE1 - Cat dander													
SIGEF3 - Fish														

Test Name	Allergy Panel - Wheeze/Arthritis (Paediatric)													
Specimen	Blood (red top, 6mL or SSTII gold top, 3.5-5mL)													
Unacceptable	Haemolysed, Lipemic, Icteric													
Method	Fluoro-enzyme-immunoassay (FEIA)													
Performed	Office hours only													
TAT	20 days													
Clinical usage	Aids in the diagnosis of IgE mediate allergic disorders. The ordering and interpretation of specific IgE tests should be made with careful clinical correlation. They are useful for confirming the allergen specificity in patients with clinically documented allergic disease. They may be less effective when used for screening. <table><tr><th colspan="2">Panel Tests</th></tr><tr><td>SIGEF13 - Peanut</td><td>SIGEF4 - Wheat</td></tr><tr><td>SIGEF2 - Milk</td><td>SIGED1 - D. Pteronyssinus</td></tr><tr><td>SIGEF24 - Shrimp</td><td>SIGED201 - Blomia Tropicalis</td></tr><tr><td>SIGEF245 - Egg</td><td>SIGEE1 - Cat dander</td></tr><tr><td>SIGEF3 - Fish</td><td>SIGEG2 - Bermuda grass</td></tr></table>		Panel Tests		SIGEF13 - Peanut	SIGEF4 - Wheat	SIGEF2 - Milk	SIGED1 - D. Pteronyssinus	SIGEF24 - Shrimp	SIGED201 - Blomia Tropicalis	SIGEF245 - Egg	SIGEE1 - Cat dander	SIGEF3 - Fish	SIGEG2 - Bermuda grass
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SIGEF2 - Milk	SIGED1 - D. Pteronyssinus													
SIGEF24 - Shrimp	SIGED201 - Blomia Tropicalis													
SIGEF245 - Egg	SIGEE1 - Cat dander													
SIGEF3 - Fish	SIGEG2 - Bermuda grass													

Test Name	Allergy Panel - Wheeze/Arthritis (Adult)													
Specimen	Blood (red top, 6mL or SSTII gold top, 3.5-5mL)													
Unacceptable	Haemolysed, Lipemic, Icteric													
Method	Fluoro-enzyme-immunoassay (FEIA)													
Performed	Office hours only													
TAT	20 days													
Clinical usage	Aids in the diagnosis of IgE mediate allergic disorders. The ordering and interpretation of specific IgE tests should be made with careful clinical correlation. They are useful for confirming the allergen specificity in patients with clinically documented allergic disease. They may be less effective when used for screening. <table><tr><th colspan="2">Panel Tests</th></tr><tr><td>SIGEF23 - Crab</td><td>SIGED201 - Blomia Tropicalis</td></tr><tr><td>SIGEF24 - Shrimp</td><td>SIGED1 - D. Pteronyssinus</td></tr><tr><td>SIGEF258 - Squid</td><td>SIGEG2 - Bermuda grass</td></tr><tr><td>SIGEF3 - Fish</td><td>SIGET19 - Acacia</td></tr><tr><td>SIGEE1 - Cat dander</td><td></td></tr></table>		Panel Tests		SIGEF23 - Crab	SIGED201 - Blomia Tropicalis	SIGEF24 - Shrimp	SIGED1 - D. Pteronyssinus	SIGEF258 - Squid	SIGEG2 - Bermuda grass	SIGEF3 - Fish	SIGET19 - Acacia	SIGEE1 - Cat dander	
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SIGEF24 - Shrimp	SIGED1 - D. Pteronyssinus													
SIGEF258 - Squid	SIGEG2 - Bermuda grass													
SIGEF3 - Fish	SIGET19 - Acacia													
SIGEE1 - Cat dander														

Test Name	Allergy Panel - Seafood									
Specimen	Blood (red top, 6mL or SSTII gold top, 3.5-5mL)									
Unacceptable	Haemolysed, Lipemic, Icteric									
Method	Fluoro-enzyme-immunoassay (FEIA)									
Performed	Office hours only									
TAT	20 days									
Clinical usage	Aids in the diagnosis of IgE mediate allergic disorders. The ordering and interpretation of specific IgE tests should be made with careful clinical correlation. They are useful for confirming the allergen specificity in patients with clinically documented allergic disease. They may be less effective when used for screening. <table><tr><th colspan="2">Panel Tests</th></tr><tr><td>SIGEF206 - Mackerel</td><td>SIGEF40 - Tuna</td></tr><tr><td>SIGEF3 - Fish</td><td>SIGEF41 - Salmon</td></tr><tr><td>SIGEF313 - Anchovy</td><td></td></tr></table>		Panel Tests		SIGEF206 - Mackerel	SIGEF40 - Tuna	SIGEF3 - Fish	SIGEF41 - Salmon	SIGEF313 - Anchovy	
Panel Tests										
SIGEF206 - Mackerel	SIGEF40 - Tuna									
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SIGEF313 - Anchovy										

Test Name	Allergy Panel - Shellfish									
Specimen	Blood (red top, 6mL or SSTII gold top, 3.5-5mL)									
Unacceptable	Haemolysed, Lipemic, Icteric									
Method	Fluoro-enzyme-immunoassay (FEIA)									
Performed	Office hours only									
TAT	20 days									
Clinical usage	Aids in the diagnosis of IgE mediate allergic disorders. The ordering and interpretation of specific IgE tests should be made with careful clinical correlation. They are useful for confirming the allergen specificity in patients with clinically documented allergic disease. They may be less effective when used for screening. <table><tr><th colspan="2">Panel Tests</th></tr><tr><td>SIGEF207 - Clam</td><td>SIGEF258 - Squid</td></tr><tr><td>SIGEF23 - Crab</td><td>SIGEF290 - Oyster</td></tr><tr><td>SIGEF24 - Shrimp</td><td></td></tr></table>		Panel Tests		SIGEF207 - Clam	SIGEF258 - Squid	SIGEF23 - Crab	SIGEF290 - Oyster	SIGEF24 - Shrimp	
Panel Tests										
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SIGEF24 - Shrimp										

Test Name	Allergy Panel - Inhalants											
Specimen	Blood (red top, 6mL or SSTII gold top, 3.5-5mL)											
Unacceptable	Haemolysed, Lipemic, Icteric											
Method	Fluoro-enzyme-immunoassay (FEIA)											
Performed	Office hours only											
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Clinical usage	Aids in the diagnosis of IgE mediate allergic disorders. The ordering and interpretation of specific IgE tests should be made with careful clinical correlation. They are useful for confirming the allergen specificity in patients with clinically documented allergic disease. They may be less effective when used for screening. <table><tr><th colspan="2">Panel Tests</th></tr><tr><td>SIGED1 - D. Pteronyssinus</td><td>SIGEE1 - Cat dander</td></tr><tr><td>SIGED201 - Blomia Tropicalis</td><td>SIGEM3 - Aspergillus Fumigatus</td></tr><tr><td>SIGEG17 - Bahia grass</td><td>SIGEI206 - Cockroach, American</td></tr><tr><td>SIGEG2 - Bermuda grass</td><td>SIGET3 - Common silver Birch</td></tr></table>		Panel Tests		SIGED1 - D. Pteronyssinus	SIGEE1 - Cat dander	SIGED201 - Blomia Tropicalis	SIGEM3 - Aspergillus Fumigatus	SIGEG17 - Bahia grass	SIGEI206 - Cockroach, American	SIGEG2 - Bermuda grass	SIGET3 - Common silver Birch
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Test Name	Allergy Panel - Food									
Specimen	Blood (red top, 6mL or SSTII gold top, 3.5-5mL)									
Unacceptable	Haemolysed, Lipemic, Icteric									
Method	Fluoro-enzyme-immunoassay (FEIA)									
Performed	Office hours only									
TAT	20 days									
Clinical usage	Aids in the diagnosis of IgE mediate allergic disorders. The ordering and interpretation of specific IgE tests should be made with careful clinical correlation. They are useful for confirming the allergen specificity in patients with clinically documented allergic disease. They may be less effective when used for screening. <table><tr><th colspan="2">Panel Tests</th></tr><tr><td>SIGEF14 - Soya bean</td><td>SIGEF27 - Beef</td></tr><tr><td>SIGEF2 - Milk</td><td>SIGEF81 - Cheese, Cheddar type</td></tr><tr><td>SIGEF245 - Egg</td><td>SIGEF83 - Chicken</td></tr></table>		Panel Tests		SIGEF14 - Soya bean	SIGEF27 - Beef	SIGEF2 - Milk	SIGEF81 - Cheese, Cheddar type	SIGEF245 - Egg	SIGEF83 - Chicken
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Test Name	Allergy Panel - Eczema & Wheeze/Arthritis																
Specimen	Blood (red top, 6mL or SSTII gold top, 3.5-5mL)																
Unacceptable	Haemolysed, Lipemic, Icteric																
Method	Fluoro-enzyme-immunoassay (FEIA)																
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Clinical usage	Aids in the diagnosis of IgE mediate allergic disorders. The ordering and interpretation of specific IgE tests should be made with careful clinical correlation. They are useful for confirming the allergen specificity in patients with clinically documented allergic disease. They may be less effective when used for screening. <table><tr><th colspan="2">Panel Tests</th></tr><tr><td>SIGEF13 - Peanut</td><td>SIGEF4 - Wheat</td></tr><tr><td>SIGEF2 - Milk</td><td>SIGEE1 - Cat dander</td></tr><tr><td>SIGEF23 - Crab</td><td>SIGED1 - D. Pteronyssinus</td></tr><tr><td>SIGEF24 - Shrimp</td><td>SIGED201 - Blomia Tropicalis</td></tr><tr><td>SIGEF245 - Egg</td><td>SIGEG2 - Bermuda grass</td></tr><tr><td>SIGEF258 - Squid</td><td>SIGET19 - Acacia</td></tr><tr><td>SIGEF3 - Fish</td><td></td></tr></table>	Panel Tests		SIGEF13 - Peanut	SIGEF4 - Wheat	SIGEF2 - Milk	SIGEE1 - Cat dander	SIGEF23 - Crab	SIGED1 - D. Pteronyssinus	SIGEF24 - Shrimp	SIGED201 - Blomia Tropicalis	SIGEF245 - Egg	SIGEG2 - Bermuda grass	SIGEF258 - Squid	SIGET19 - Acacia	SIGEF3 - Fish	
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Test Name	Allergy Panel - Eczema & Inhalants																	
Specimen	Blood (red top, 6mL or SSTII gold top, 3.5-5mL)																	
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SIGEI206 - Cockroach, American	SIGET3 - Common silver Birch																	

Test Name	ANA Profile 3 plus DFS70 (IgG) ANABLOT																																			
Specimen	Blood (red top, 6mL or SSTII gold top, 3.5-5mL)																																			
Unacceptable	Haemolysed, Lipemic, Icteric																																			
Method	Lineblot Assay (LIA)																																			
Performed	Office hours only																																			
TAT	10 days																																			
Clinical usage	<table><tr><th>Antigen</th><th>Associated Diseases</th></tr><tr><td>RNP/Sm</td><td>MCTD, SLE, Systemic Sclerosis, Polymyositis, Dermatomyositis</td></tr><tr><td>Sm</td><td>SLE</td></tr><tr><td>SS-A native (60 kDa)</td><td>Sjögren's syndrome, SLE, Neonatal lupus erythematosus, Primary biliary cirrhosis</td></tr><tr><td>Ro-52 recombinant</td><td>Sjögren's syndrome, SLE, Neonatal lupus erythematosus, Systemic sclerosis, Myositis, Polymyositis, Dermatomyositis, MCTD, Primary biliary cirrhosis, RA, Autoimmune hepatitis, Viral hepatitis. Note: Not disease specific and only considered as positive if accompanied by another positive marker.</td></tr><tr><td>SS-B</td><td>Sjögren's syndrome, SLE, Neonatal lupus erythematosus</td></tr><tr><td>Sci-70</td><td>Systemic sclerosis (diffuse and limited form)</td></tr><tr><td>PM-Scl</td><td>Systemic sclerosis, Polymyositis, Overlap syndrome</td></tr><tr><td>Jo-1</td><td>Polymyositis, Dermatomyositis</td></tr><tr><td>Centromere B</td><td>Systemic sclerosis (diffuse and limited form), Primary biliary cirrhosis</td></tr><tr><td>PCNA</td><td>SLE</td></tr><tr><td>dsDNA</td><td>SLE</td></tr><tr><td>Nucleosome</td><td>SLE</td></tr><tr><td>Histones</td><td>Drug-induced lupus erythematosus, SLE, RA</td></tr><tr><td>Ribosomal-P-protein (RIB)</td><td>SLE</td></tr><tr><td>AMA-M2</td><td>Primary biliary liver cirrhosis</td></tr><tr><td>DFS70</td><td>Atopic dermatitis, asthma, Vogt-Harada syndrome and inerstitial cystitis, as well as rheumatic disease, healthy blood donors</td></tr></table>		Antigen	Associated Diseases	RNP/Sm	MCTD, SLE, Systemic Sclerosis, Polymyositis, Dermatomyositis	Sm	SLE	SS-A native (60 kDa)	Sjögren's syndrome, SLE, Neonatal lupus erythematosus, Primary biliary cirrhosis	Ro-52 recombinant	Sjögren's syndrome, SLE, Neonatal lupus erythematosus, Systemic sclerosis, Myositis, Polymyositis, Dermatomyositis, MCTD, Primary biliary cirrhosis, RA, Autoimmune hepatitis, Viral hepatitis. Note: Not disease specific and only considered as positive if accompanied by another positive marker.	SS-B	Sjögren's syndrome, SLE, Neonatal lupus erythematosus	Sci-70	Systemic sclerosis (diffuse and limited form)	PM-Scl	Systemic sclerosis, Polymyositis, Overlap syndrome	Jo-1	Polymyositis, Dermatomyositis	Centromere B	Systemic sclerosis (diffuse and limited form), Primary biliary cirrhosis	PCNA	SLE	dsDNA	SLE	Nucleosome	SLE	Histones	Drug-induced lupus erythematosus, SLE, RA	Ribosomal-P-protein (RIB)	SLE	AMA-M2	Primary biliary liver cirrhosis	DFS70	Atopic dermatitis, asthma, Vogt-Harada syndrome and inerstitial cystitis, as well as rheumatic disease, healthy blood donors
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Test Name	Anti-MPO, -PR3 and -GBM (IgG) (Anti-GBM)									
Specimen	Blood (red top, 6mL or SSTII gold top, 3.5-5mL)									
Unacceptable	Haemolysed, Lipemic, Icteric									
Method	Lineblot Assay (LIA)									
Performed	Office hours only									
TAT	10 days									
Clinical usage	<table><tr><th>Antigen</th><th>Associated Diseases</th></tr><tr><td>Myeloperoxidase (MPO)</td><td>Eosinophilic granulomatosis with polyangiitis (EGPA) ; Microscopic polyangiitis (MPA)</td></tr><tr><td>Proteinase 3 (PR3)</td><td>Granulomatosis with polyangiitis (Wegener’s) (GPA) ; Microscopic polyangiitis (MPA)</td></tr><tr><td>Glomerular basement membrane (GBM)</td><td>Goodpasture’s syndrome</td></tr></table>		Antigen	Associated Diseases	Myeloperoxidase (MPO)	Eosinophilic granulomatosis with polyangiitis (EGPA) ; Microscopic polyangiitis (MPA)	Proteinase 3 (PR3)	Granulomatosis with polyangiitis (Wegener’s) (GPA) ; Microscopic polyangiitis (MPA)	Glomerular basement membrane (GBM)	Goodpasture’s syndrome
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Glomerular basement membrane (GBM)	Goodpasture’s syndrome									

Test Name	Autoimmune Liver Disease (IgG) (LIVERBLOT)																					
Specimen	Blood (red top, 6mL or SSTII gold top, 3.5-5mL)																					
Unacceptable	Haemolysed, Lipemic, Icteric																					
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Test Name	Autoimmune Inflammatory Myopathies 16 Ag (IgG) (MPBLOT)																																			
Specimen	Blood (red top, 6mL or SSTII gold top, 3.5-5mL)																																			
Unacceptable	Haemolysed, Lipemic, Icteric																																			
Method	Lineblot Assay (LIA)																																			
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Clinical usage	<table><tr><th>Antigen</th><th>Associated Diseases and Autoantibody Prevalence</th></tr><tr><td>Mi-2α</td><td>15-30% in DM patients ; 8-12% in idiopathic myositis patients</td></tr><tr><td>Mi-2β</td><td>15-30% in DM patients ; 8-12% in idiopathic myositis patients</td></tr><tr><td>TIF1g</td><td>15% in DM patients</td></tr><tr><td>MDA5</td><td>13-26% in DM patients ; 95% in clinically amyopathic DM patients</td></tr><tr><td>NXP2</td><td>18-25% in juvenile PM/DM patients</td></tr><tr><td>SAE1</td><td>8% in DM patients</td></tr><tr><td>Ku</td><td>Myositis associated. 40% in myositis or systemic sclerosis</td></tr><tr><td>PM-Sc100</td><td>Myositis associated. 50-70% in overlap PM/DM/systemic sclerosis patients</td></tr><tr><td>PM-Sc175</td><td>Myositis associated. 50-70% in overlap PM/DM/systemic sclerosis patients</td></tr><tr><td>Jo-1</td><td>25-55% in PM patients</td></tr><tr><td>SRP</td><td>5% in PM patients</td></tr><tr><td>PL-7</td><td>3-6% in myositis patients</td></tr><tr><td>PL-12</td><td>3% in myositis patients</td></tr><tr><td>EJ</td><td>1-3% in PM patients</td></tr><tr><td>OJ</td><td>3% in (poly) myositis patients</td></tr><tr><td>Ro-52</td><td>25% in myositis patientsNote: Not disease specific and only considered as positive if accompanied by another positive marker.</td></tr></table>		Antigen	Associated Diseases and Autoantibody Prevalence	Mi-2α	15-30% in DM patients ; 8-12% in idiopathic myositis patients	Mi-2β	15-30% in DM patients ; 8-12% in idiopathic myositis patients	TIF1g	15% in DM patients	MDA5	13-26% in DM patients ; 95% in clinically amyopathic DM patients	NXP2	18-25% in juvenile PM/DM patients	SAE1	8% in DM patients	Ku	Myositis associated. 40% in myositis or systemic sclerosis	PM-Sc100	Myositis associated. 50-70% in overlap PM/DM/systemic sclerosis patients	PM-Sc175	Myositis associated. 50-70% in overlap PM/DM/systemic sclerosis patients	Jo-1	25-55% in PM patients	SRP	5% in PM patients	PL-7	3-6% in myositis patients	PL-12	3% in myositis patients	EJ	1-3% in PM patients	OJ	3% in (poly) myositis patients	Ro-52	25% in myositis patientsNote: Not disease specific and only considered as positive if accompanied by another positive marker.
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Test Name	Systemic Sclerosis (Nucleoli) profile (IgG) (SSBLOT)		
Specimen	Blood (red top, 6mL or SSTII gold top, 3.5-5mL)		
Unacceptable	Haemolysed, Lipemic, Icteric		
Method	Lineblot Assay (LIA)		
Performed	Office hours only		
TAT	10 days		
Clinical usage	Antigen	Autoantibody Prevalence in Systemic Sclerosis (SSc)	
	Scl-70	40-78% in SSc (diffuse form) ; 5-15% in SSc (limited form)	
	Centromere A	5-10% in SSc (diffuse form) ; 80-95% in SSc (limited form)	
	Centromere B	5-10% in SSc (diffuse form) ; 80-95% in SSc (limited form)	
	RP11	5-22% in SSc (diffuse form)	
	RP155	5-22% in SSc (diffuse form)	
	Fibrillarin	5-10% in SSc (diffuse form)	
	NOR90	rarely (<5% in SSc)	
	Th/To	rarely (<5% in SSc)	
	PM-Scl100	10-20% in SSc	
	PM-Scl75	10-20% in SSc	
	Ku	rarely (<5% in SSc)	
	PDGFR	rarely (<5% in SSc)	
	Ro-52	Antibodies against Ro-52 are not systemic sclerosis specific but often co-occur with antibodies against SSc specific antigens.	

Test Name	Neuronal Antigens Profile PLUS RST (IgG) (NEUROBLOT)																														
Specimen	Blood (red top, 6mL or SSTII gold top, 3.5-5mL)																														
Unacceptable	Haemolysed, Lipemic, Icteric																														
Method	Lineblot Assay (LIA)																														
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Clinical usage	<table><tr><th>Antigen</th><th>Associated Diseases</th><th>Associated Tumors</th></tr><tr><td>Amphiphysin</td><td>Stiff-person syndrome</td><td>Breast carcinoma; small-cell lung carcinoma</td></tr><tr><td>CV2</td><td>Limbic encephalitis</td><td>Small-cell lung carcinoma; thymoma</td></tr><tr><td>PNMA2 (Ma2/Ta)</td><td>Rhombencephalitis; paraneoplastic limbic encephalitis; brain stem encephalopathy</td><td>Germinal carcinoma of the testis (seminoma)</td></tr><tr><td>Ri</td><td>Paraneoplastic opsoclonus myoclonus ataxia</td><td>Small-cell lung carcinoma; breast carcinoma</td></tr><tr><td>Yo</td><td>Paraneoplastic cerebellar degeneration</td><td>Ovarian, breast, uterine carcinoma</td></tr><tr><td>Hu</td><td>Encephalitides with focus in brain stem, cerebellum and limbic system; myelitis; polyneuropathy (autonomous, sensory, sensory-motor)</td><td>Small-cell lung carcinoma; neuroblastoma</td></tr><tr><td>Recoverin</td><td>Retinopathy</td><td>Small-cell lung carcinoma</td></tr><tr><td>SOX1</td><td>Lambert-Eaton myasthenic syndrome</td><td>Small-cell lung carcinoma</td></tr><tr><td>Titin</td><td>Myasthenia gravis</td><td>Thymoma</td></tr></table>	Antigen	Associated Diseases	Associated Tumors	Amphiphysin	Stiff-person syndrome	Breast carcinoma; small-cell lung carcinoma	CV2	Limbic encephalitis	Small-cell lung carcinoma; thymoma	PNMA2 (Ma2/Ta)	Rhombencephalitis; paraneoplastic limbic encephalitis; brain stem encephalopathy	Germinal carcinoma of the testis (seminoma)	Ri	Paraneoplastic opsoclonus myoclonus ataxia	Small-cell lung carcinoma; breast carcinoma	Yo	Paraneoplastic cerebellar degeneration	Ovarian, breast, uterine carcinoma	Hu	Encephalitides with focus in brain stem, cerebellum and limbic system; myelitis; polyneuropathy (autonomous, sensory, sensory-motor)	Small-cell lung carcinoma; neuroblastoma	Recoverin	Retinopathy	Small-cell lung carcinoma	SOX1	Lambert-Eaton myasthenic syndrome	Small-cell lung carcinoma	Titin	Myasthenia gravis	Thymoma
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Test Name	Anti-Phospholipase A2 Receptor IgG (Anti-PLA2R)
Specimen	Blood (red top, 6mL or SSTII gold top, 3.5-5mL)
Unacceptable	Haemolysed, Lipemic, Icteric
Method	Enzyme linked immunosorbent assay ELISA
Performed	Office hours only
TAT	20 days
Clinical usage	Useful in the diagnosis of primary membranous glomerulonephritis (MGN, pMGN)

Test Name	Anti-Tissue Transglutaminase IgG (Anti-TTG)
Specimen	Blood (red top, 6mL or SSTII gold top, 3.5-5mL)
Unacceptable	Haemolysed, Lipemic, Icteric
Method	Enzyme linked immunosorbent assay ELISA
Performed	Office hours only
TAT	40 days
Clinical usage	Useful in the diagnosis of gluten-sensitive enteropathy (coeliac disease) and Dermatitis herpetiformis Duhring.

Test Name	Anti-Tissue Transglutaminase IgA (Anti-TTA)
Specimen	Blood (red top, 6mL or SSTII gold top, 3.5-5mL)
Unacceptable	Haemolysed, Lipemic, Icteric
Method	Enzyme linked immunosorbent assay ELISA
Performed	Office hours only
TAT	40 days
Clinical usage	Useful in the diagnosis of gluten-sensitive enteropathy (coeliac disease) and Dermatitis herpetiformis Duhning.

Test Name	Anti-Glutamic Acid Decarboxylase IgG (Anti-GAD)
Specimen	Blood (red top, 6mL or SSTII gold top, 3.5-5mL)
Unacceptable	Haemolysed, Lipemic, Icteric
Method	Enzyme linked immunosorbent assay ELISA
Performed	Office hours only
TAT	20 days
Clinical usage	Useful in the diagnosis of type 1 diabetes mellitus (insulin-dependent diabetes mellitus, IDDM).

Test Name	Anti-Insulinoma Antigen 2 IgG (Anti-IA2)
Specimen	Blood (red top, 6mL or SSTII gold top, 3.5-5mL)
Unacceptable	Haemolysed, Lipemic, Icteric
Method	Enzyme linked immunosorbent assay ELISA
Performed	Office hours only
TAT	20 days
Clinical usage	Useful in the diagnosis of type 1 diabetes mellitus (insulin-dependent diabetes mellitus, IDDM).