

## DISEASE-STATE PLASMA/SERUM

Logical Biological specialises in the provision of human disease plasma and serum suitable for incorporating into calibrators & controls, for assay development and quality control testing.

- 🔥 Directly collected from donor centres and blood banks around the world
- 🔥 Bulk volumes, evaluation and clinical samples (typically ~1 ml) available
- 🔥 Ethically sourced
- 🔥 Prospective collections and matched sets can be arranged
- 🔥 Information available (e.g. demographic data, date of collection etc)

### Allergy

Alternaria alternata (M6) specific IgE  
 Ascaris (P1) specific IgE  
 Aspergillus fumigatus (M3) specific IgE  
 Avocado (F96) specific IgE  
 Bahia Grass (G17) specific IgE  
 Beef (F27) specific IgE  
 Bermuda grass (G2) specific IgE  
 Birch (T3) specific IgE  
 Blomia tropicalis (D201) specific IgE  
 Blue Mussel (F37) specific IgE  
 Celery (F417) specific IgE  
 Chicken (F83) specific IgE  
 Chicken feathers (E85) specific IgE  
 Chickpea (F309) specific IgE  
 Cladosporium herbarum (M2) specific IgE  
 Cod (F3) specific IgE  
 Common Wasp (Yellow Jacket) (I3) specific IgE  
 Crab (F23) specific IgE  
 Dermatophagoides farinae (D1) specific IgE  
 Dermatophagoides pteronyssinus (D2) specific IgE  
 Dog dander (E5) specific IgE  
 Dust Mite rDer p23 (D209) specific IgE  
 Egg white (F1) specific IgE  
 Egg Yolk (F75) specific IgE  
 Hazelnut (F440) specific IgE  
 Honeybee (I1) specific IgE  
 Horse Dander (E3) specific IgE  
 Total IgE (High)  
 Kiwi (F84) specific IgE  
 Lentil (F235) specific IgE  
 Meadow Fescue Grass (G4) specific IgE  
 Milk (F2) specific IgE  
 Mouse (E88) specific IgE  
 Mutton (F88) specific IgE  
 Oak (T7) specific IgE  
 Olive Tree (T9) specific IgE  
 Peanut (F13) specific IgE  
 Pork (F26) specific IgE  
 Rat (E87) specific IgE  
 Rye (F5) specific IgE  
 Sagebrush mugwort (W6) specific IgE  
 Shrimp (F24) specific IgE  
 Soybean (F14) specific IgE  
 Squid (F258) specific IgE  
 Sycamore (T11) specific IgE  
 Timothy grass (G6) specific IgE  
 Tuna (F40) specific IgE  
 Wall pellitory (W19) specific IgE  
 Wall pellitory (W21) specific IgE  
 Wheat (F4) specific IgE  
 White Ash (T15) specific IgE  
 White Bean (F15) specific IgE  
 Willow (T12) specific IgE

### Auto-Immune

Anti-CCP (Cyclic Citrullinated Peptide)  
 Anti-CENPB  
 Anti-dsDNA  
 Anti-GBM  
 Anti-Gliadin IgA  
 Anti-IA2  
 Anti-IAA  
 Anti-Intrinsic Factor  
 Anti-Jo1  
 Anti-MPO  
 Anti-Nuclear Antibodies (ANA)  
 Anti-Proteinase 3 (PR3)  
 Anti-Ribosomal P

### Auto-Immune (cont.)

Anti-RNP  
 Anti-Scl70  
 Anti-Smith  
 Anti-SSA  
 Anti-SSB  
 Anti-Tg (Thyroglobulin)  
 Anti-TPO (Thyroid Peroxidase)  
 Anti-tTG IgA  
 Beta2 IgA  
 Beta2-GP1 IgG  
 Cardioplipin IgA/ IgG/ IgM  
 Celiac  
 Gliadin deamidated IgA/ IgG  
 Rheumatoid Factor (RF)  
 Systemic Lupus Erythematosus (SLE)  
 tTG IgG

### Cancer

Alpha Feto Protein  
 CEA  
 CA125  
 CA15-3  
 CA19-9  
 CA72-4  
 CTSB  
 Cyfra 21-1  
 Gastrin-17  
 HE4  
 Hepatocellular Carcinoma (HCC)  
 HGFR  
 Myeloma IgE  
 NSE  
 Pepsinogen 1  
 Pepsinogen 2  
 PIVKA2  
 PSA  
 Small Cell Lung Cancer (SCLC)  
 Squamous Cell Carcinoma (SCC)  
 Thyroglobulin (Tg)

### Cardiovascular

ApoA  
 ApoE  
 Apolipoprotein A-I, Plasma  
 Apolipoprotein A-II, Plasma  
 Apolipoprotein A-IV  
 Apolipoprotein B, Plasma  
 Apolipoprotein C-III, Plasma  
 BNP  
 CK-MB  
 CKMM  
 CRP  
 D-Dimer  
 Fatty Acid Binding Protein  
 Fatty Acid Binding Protein 3  
 Fibrinogen  
 Heart Myosin Light Chain (MLC) Kinase  
 High Density Lipoprotein  
 Low Density Lipoprotein  
 MPO  
 Myoglobin  
 NT-proBNP  
 Procalcitonin  
 Tropomyosin  
 Troponin C  
 Troponin I

### Cardiovascular (cont.)

Troponin T  
 Scleroderma

### Hormones

ACTH  
 FT3  
 FT4  
 FSH  
 HGH  
 LH  
 Prolactin  
 SHBG  
 TSH

### Infectious Diseases (inc Hazard Group 3)

Adenovirus IgG/ IgM  
 Anti-HBc  
 Anti-HBc IgM  
 Anti-Hbe  
 Anti-HBs  
 Anti-Hepatitis C Virus (HCV)  
 Anti-Hepatitis D Virus (HDV)  
 Anti-HIV  
 Anti-HIV1 or HIV2  
 Anti-HTLV1  
 Antistreptolysin O  
 Anti-Syphilis  
 Aspergillus IgG  
 B. pertussis IgG  
 Candida albicans IgG/ IgM  
 Chagas IgG  
 Chikungunya IgG  
 Chlamydia pneumoniae IgG/ IgM  
 Chlamydia trachomatis IgG/ IgM  
 CMV IgG/ IgM  
 Coronavirus 229E IgG/ IgM  
 Coronavirus HKU1 IgG/ IgM  
 Coronavirus NL63 IgG/ IgM  
 Coronavirus OC43 IgG/ IgM  
 Coxsackie B Virus IgG positive  
 Dengue IgG  
 E. coli IgG/ IgM  
 Echovirus IgG positive  
 Enterovirus IgG  
 Epstein Barr Virus (EBV) IgG/ IgM  
 Epstein Barr Virus (EBV) EA IgG/ IgM  
 Epstein Barr Virus (EBV) VCA IgG  
 Ev71 IgM  
 Haemophilus influenzae IgG/ IgM  
 HbsAg  
 HBsAg Ay  
 HBV IgG  
 HCV IgG  
 Hepatitis A IgG/ IgM  
 Hepatitis B e Antigen (HbeAg)  
 Hepatitis B Virus (HBV) Cytosolic Antigen  
 Hepatitis B Virus (HBV) IgM  
 Hepatitis C Virus (HCV) IgM  
 Hepatitis D Virus (HDV) IgM  
 Hepatitis E Virus (HEV) IgG/ IgM  
 Herpes Simplex Virus 1 (HSV1) IgG/ IgM  
 Herpes Simplex Virus 2 (HSV2) IgM  
 HIV IgG/ IgM  
 HIV P25  
 HSV IgM  
 HSV1/2 IgG/ IgM

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### Infectious Diseases (inc Hazard Group 3)

Human African Trypanosomiasis (HAT) IgG  
 Influenza A IgG/ IgM  
 Influenza B IgG/ IgM  
 Legionella pneumophila IgG/ IgM  
 Leptospira IgG/ IgM  
 M. tuberculosis IgG  
 Measles IgG/ IgM  
 Metapneumovirus (MPV) IgG/ IgM  
 Mumps (Rubulavirus) IgG/ IgM  
 Mycoplasma pneumoniae IgG/ IgM  
 Parainfluenza 1 IgG/ IgM  
 Parainfluenza 1/2/3 IgG/ IgM  
 Parainfluenza 1/2/3 IgM positive  
 Parainfluenza 2 IgG/ IgM  
 Parainfluenza 3 IgG/ IgM  
 Parvovirus B19 IgG/ IgM  
 Plasmodium falciparum IgG  
 Pneumocystis jirovecii IgG  
 Poliovirus IgG positive  
 Rhinovirus IgG  
 Rotavirus positive  
 RSV IgG/ IgM  
 Rubella IgG/ IgM  
 Salmonella typhi IgG  
 SARS-Cov-2 IgA/ IgG/ IgM  
 Streptococcus pneumoniae IgG  
 Streptococcus pyogenes IgG  
 Syphilis IgM  
 Tick-borne Encephalitis (TBE) Virus IgG  
 Toxoplasma IgG/ IgM  
 Varicella Zoster Virus (VZV) IgG/ IgM  
 Zika Virus IgG/ IgM

### Neurological

Alzheimer's  
 Neuron Specific Enolase (NSE)  
 Parkinson's  
 tTau

**This list is not exhaustive. Please contact us with requests for other markers.**

## SARS-CoV-2/ RESPIRATORY

Logical Biological offers a wide range of SARS-CoV-2 / respiratory disease materials, with quantitative results.

- 🔥 Bulk volumes, evaluation and clinical samples (typically~1 ml) available
- 🔥 Ethically sourced
- 🔥 Prospective collections and matched sets can be arranged subject to availability
- 🔥 Information available (e.g. demographic data, date of collection)

### Marker

Adenovirus  
 Coronavirus 229E IgG/ IgM  
 Coronavirus HKU1 IgG/ IgM  
 Coronavirus NL63 IgG/ IgM  
 Coronavirus OC43 IgG/ IgM  
 Influenza A IgG/ IgM  
 Influenza B IgG/ IgM  
 H. influenzae IgG/ IgM  
 Parainfluenza 1 IgG/ IgM  
 Parainfluenza 2 IgG/ IgM  
 Parainfluenza 3 IgG/ IgM  
 Parainfluenza 4 IgG  
 Respiratory Syncytial Virus (RSV) IgG/ IgM  
 Respiratory Virus Negative  
 SARS-CoV-2 IgA/ IgG/ IgM  
 SARS-CoV-2 Hospitalised

**This list is not exhaustive. Please contact us with requests for other markers.**

### Pregnancy

alpha-hCG  
 beta-hCG  
 hCG  
 Contraceptive-treated  
 First Trimester Pregnancy  
 Second Trimester Pregnancy  
 Third Trimester Pregnancy

### Sepsis/Inflammation

CRP  
 IL-6  
 Procalcitonin (PCT)  
 Sepsis positive

### Miscellaneous

Alkaline Phosphatase  
 Alpha-1-Antichymotrypsin  
 Alpha-1-Antitrypsin  
 Alpha-1-Microglobulin  
 Alpha-2-Antiplasmin  
 Alpha-2-Macroglobulin  
 Alpha-2-Glycoprotein 1, Zinc-Binding  
 Alpha-2-HS-Glycoprotein  
 Alpha Amylase Pancreas  
 Amylase alpha 1A  
 Angiotensinogen  
 Antibiotics  
 Antifungals/ Parasitic  
 Antiepileptics  
 Antithrombin-III  
 Apotransferrin  
 Ascites Fluid  
 Aspartate Aminotransferase, Mitochondrial  
 B2G1/APOH  
 Butyrylcholinesterase / BCHE  
 C1 Esterase Inhibitor, Plasma

### Miscellaneous (cont.)

Calpain-1, Erythrocytes  
 Calprotectin Stools  
 Catalase  
 Cathepsin B/ D/ G/ H/ L  
 Ceruloplasmin  
 Chymotrypsin  
 Coagulation Factor XIII/ XIIIa  
 Complement 3c/ 4c  
 CSF  
 CTSH Protein  
 Cystatin C  
 Gamma Glutamyltransferase  
 HAMA (Human anti-mouse antibody)  
 Haptoglobin 1-1  
 Hemoglobin A1c  
 Hemopexin  
 Holo-Transferrin  
 Hospitalised  
 Lactate Dehydrogenase  
 LD2 3H1M  
 LD3 2H2M  
 LD4 1H3M  
 LD5 4M  
 Lactoferrin  
 Leukocytes  
 Leukocyte Esterase  
 Neutrophil Elastase  
 Orosomucoid 1  
 Pepsinogen I/ II  
 Plasminogen  
 Prealbumin Transthyretin  
 Prolactin  
 Saliva  
 Thrombin alpha  
 Thrombospondin-1  
 Urine  
 Whole Blood