

PRODUCT CATALOGUE

2025



Supplier of Disease State Plasma, Serum and
Clinical Samples

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Meet Abe!
Our No Drama
Llama

ABOUT US

HOW IT ALL BEGAN

AbBaltis was founded in 2010 by Giedre Brandao with just £600 and no external investment. From the beginning, Giedre was driven by a powerful vision: to create a company that not only delivers high-quality scientific solutions but also champions a workplace culture rooted in support, flexibility, and inclusivity.



OUR WORK IN ACTION

Today, AbBaltis is proudly women-led, with a dynamic team that includes part-time, full-time, remote, and flexibly scheduled professionals. We've cultivated a diverse and empowering culture, one that champions work-life balance, celebrates individual contributions, and nurtures long-term growth for every member of our team.

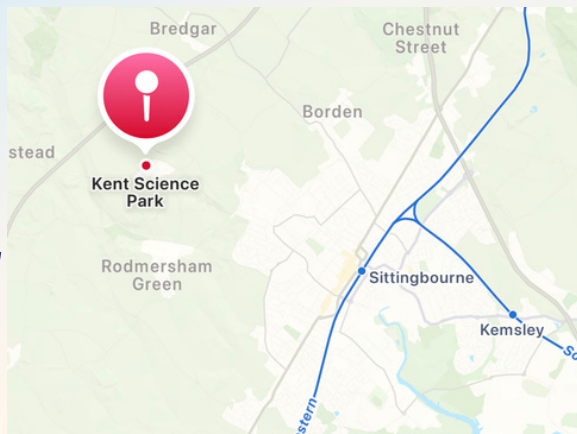
Our experienced team of scientists and researchers is dedicated to ensuring the highest standards for our products. We meticulously characterise our disease state plasma and residual clinical specimens using a comprehensive panel of in-vitro diagnostic assays (EIA, IFA, CF, RIA, CAP, latex agglutination) to guarantee their suitability as controls, standards, and calibrators.



We offer Free of Charge Samples for our materials, please contact us today at info@abbaltis.com to request your FOC sample pack.



LOCALLY BASED, GLOBALLY KNOWN



**190 Carver Drive
Kent Science Park
Sittingbourne
Kent, England
ME98NP**

We ship our products all over the world, with customers across Europe, America and Asia. Including countries such as:



RESEARCH PAPERS



*A point-of-care cassette test for detection of *Strongyloides stercoralis*.*



Fully Quantitative Measurements of Differential Antibody Binding to a Spectrum of SARS-CoV-2 Spike Proteins: Wuhan, Alpha, Beta, Gamma, Delta, Omicron BA.1, BA.4, BA.5, BA.2.75 and BA.2.12.1.



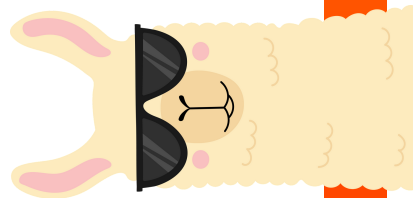
Development of an Anti-Zika and Anti-Dengue IgM ELISA Assay: Evaluation of Cross Reactivity and Validation.

Check out our
contributions to
research!



POPULAR PRODUCTS

CR-AUTO-1090	ANA Positive Residual Clinical Sample
PB-AUTO-1740	Acetylcholine Receptor Antibody Positive
PB-INFE-1100	Bordetella pertussis IgM Positive
PB-INFE-1130	Borrelia burgdorferi IgM Positive
PB-INFE-1260	Chlamydia pneumoniae IgM Positive
PB-INFE-3990	Chikungunya IgG Antibody Positive
PB-INFE-2180	Coxsackie B Virus IgG Positive
PB-INFE-1320	Cytomegalo Virus IgM Positive
PB-INFE-3360	Cytomegalo virus IgG Negative
PB-INFE-2020	EBV IgG Negative
PB-INFE-1430	Epstein-Barr Virus VCA IgM Positive
CR-AUTO-2010	GAD Positive Residual Clinical Sample
PB-INFE-2000	Herpes Simplex Virus IgG 1/2 Negative
PB-INFE-2010	Herpes Simplex Virus 2 IgG Negative
PB-INFE-1540	Herpes Simplex Virus 1/2 IgM Positive
PB-INFE-2860	HHV6 Human Herpes Virus 6 IgG Positive
CR-AUTO-2000	IA2 Positive Residual Clinical Sample
PB-INFE-1700	Mycoplasma pneumoniae IgM Positive
CR-INFE-1030	Residual Clinical Sample HSV IgM Positive
PB-INFE-1810	Rubella IgM Positive
PB-INFE-1850	Toxoplasma IgM Positive



PRODUCT LIST



RESIDUAL CLINICAL SAMPLES

ALLERGY

CR-ALLE-1001	F20 Almond IgE Positive Residual Clinical Sample
CR-ALLE-1010	M3 Aspergillus
CR-ALLE-1011	T215 Betv1 IgE Positive
CR-ALLE-1100	F202 Cashew Nut IgE Positive Residual Clinical Sample
CR-ALLE-1108	F83 Chicken IgE Positive Residual Clinical Sample
CR-ALLE-1009	I6 Cockroach IgE Positive
CR-ALLE-1005	F1 Egg White IgE Positive Residual Clinical Sample
CR-ALLE-2500	High Level Specific IgE Allergy Sample
CR-ALLE-3000	IgE High and Low Range Residual Clinical Sample
CR-ALLE-4000	IgE Positive Residual Clinical Sample
CR-ALLE-1006	F2 Milk IgE Positive Residual Clinical Sample
CR-ALLE-1002	W6 Mugwort IgE Positive Residual Clinical Sample
CR-ALLE-1013	W9 Plantain
CR-ALLE-1000	F13 Peanut IgE Positive Residual Clinical Sample
CR-ALLE-1103	F26 Pork Allergy Positive Residual Clinical Sample
CR-ALLE-1106	F10 Sesame IgE Positive Residual Clinical Sample
CR-ALLE-1101	F24 Shrimp IgE Positive Residual Clinical Sample
CR-ALLE-1104	F44 Strawberry IgE Positive Residual Clinical Sample
CR-ALLE-1003	G6 Timothy IgE Positive Residual Clinical Sample
CR-ALLE-2000	Total IgE Residual Clinical Sample
CR-ALLE-1012	T224 Olive
CR-ALLE-1007	T7 Oak Pollen IgE Positive Residual Clinical Sample
CR-ALLE-1105	F25 Tomato IgE Positive Residual Clinical Sample
CR-ALLE-1102	F245 Whole Egg IgE Positive Residual Clinical Sample
CR-ALLE-1008	F256 Walnut IgE Positive

RESIDUAL CLINICAL SAMPLES

AUTOIMMUNE

CR-AUTO-1100	ASCA Ab Positive Residual Clinical Sample
CR-AUTO-1000	Anti-DNA antibodies Double Stranded DNA
CR-AUTO-1090	ANA Positive Residual Clinical Sample
CR-AUTO-1170	Autoimmune Gastritis Positive Residual Clinical Sample
CR-AUTO-1190	BP230 Bulous Pemphigoid Antibody Positive
CR-AUTO-1110	Cardiolipin IgM Positive Residual Clinical Sample
CR-AUTO-1120	Cardiolipin IgG Positive Residual Clinical Sample
CR-AUTO-1210	C1q Positive Residual Clinical Sample
CR-AUTO-1130	Gliadin IgA Residual Clinical Sample
CR-AUTO-1140	Gliadin IgG Residual Clinical Sample
CR-AUTO-1010	GBM Antibody Positive
CR-AUTO-1180	HIT Positive Samples
CR-AUTO-1220	Hu (anti-neuronal) Residual Clinical Sample
CR-AUTO-1080	Liver Kidney Microsome LKM Antibody Positive Residual Clinical Sample
CR-AUTO-1020	MPO Antibody Positive
CR-AUTO-1040	Myositis Antibody Positive Residual Clinical Sample
CR-AUTO-1160	Pernicious Anemia Positive Residual Clinical Sample
CR-AUTO-1030	PR3 Antibody Positive
CR-AUTO-1200	RA/RF Patient Samples
CR-AUTO-1070	Soluble Liver Antigen SLA Antibody Positive Residual Clinical Sample
CR-AUTO-1050	tTG IgA Residual Clinical Sample
CR-AUTO-1060	Tissue Transglutaminase IgG Antibody Positive Residual Clinical Sample
CR-AUTO-1150	ZnT8 Antibody Positive Residual Clinical Sample, Price per 1 ML

RESIDUAL CLINICAL SAMPLES

AUTOIMMUNE

CR-AUTO-1500	AMA Positive Residual Clinical Sample
CR-AUTO-2040	Anti-ENA Antibody Residual Clinical Sample
CR-AUTO-1230	Aquaporin 4 Residual Clinical Sample
CR-AUTO-1290	Autoimmune Disease Positive K2 EDTA
CR-AUTO-1270	CCAP Residual Clinical Sample
CR-AUTO-1250	Collagen Type VII Clinical Residual Sample
CR-AUTO-1240	Desmoglein 1 (DSG1) Antibody Positive
CR-AUTO-2020	Diabetes Type I Residual Clinical Sample
CR-AUTO-2010	GAD Positive Residual Clinical Sample
CR-AUTO-4090	Ganglioside Antibody Positive Residual Clinical Sample
CR-AUTO-1900	Gastric Parietal Antibody Residual Clinical Sample
CR-AUTO-2000	IA2 Positive Residual Clinical Sample
CR-AUTO-2220	Intrinsic Factor Antibody Positive
CR-AUTO-2250	Lupus Positive
CR-AUTO-1930	RBP Positive Residual Clinical Sample
CR-AUTO-1280	TSH Receptor Residual Clinical Sample
CR-AUTO-1910	Theophylline Positive Clinical Sample
CR-AUTO-2200	Thyroglobulin Positive Samples <500 ug/mL
CR-AUTO-2230	Thyroglobulin Positive Samples >500 ug/mL
CR-AUTO-1300	Type 1 Diabetes Positive
CR-AUTO-1260	Yo (anti-neuronal) Residual Clinical Sample

RESIDUAL CLINICAL SAMPLES

INFECTIOUS

CR-INFE-1060	Adenovirus IgG Positive
CR-INFE-1930	Adenovirus PCR Positive Residual Clinical Sample
CR-INFE-1940	Apspergillus Ag Positive Residual Clinical Sample
CR-INFE-2350	ASO Positive Residual Clinical Sample
CR-INFE-5020	Aspergillus Ag Positive Residual Clinical Sample
CR-INFE-1040	Babesia Positive Residual Clinical Sample
CR-INFE-1000	Bartonella IgG-Residual Clinical Sample
CR-INFE-1120	Borrelia burgdorferi IgG Residual Clinical Sample
CR-INFE-1130	Borrelia burgdorferi IgM Positive Residual Clinical Sample
CR-INFE-1140	Borrelia burgdorferi IgM and IgG Positive Residual Clinical Sample
CR-INFE-1990	BAL-RSV PCR Positive Residual Clinical Sample
CR-INFE-2030	Brucella Ab Positive Residual Clinical Samples
CR-INFE-3300	BAL Untested, 5 ML minimum
CR-INFE-3310	BAL Pneumocystis jirovecii DNA Residual Clinical Specimen
CR-INFE-1180	Campylobacter jejuni IgG Positive Residual Clinical Sample
CR-INFE-1210	Candida albicans IgG Positive
CR-INFE-1780	Chikungunya Positive Sample
CR-INFE-2010	Coxiella Ab Positive Residual Clinical Sample
CR-INFE-3000	COVID-19 PCR Positive Infectious- 0.5 ML Sample
CR-INFE-3010	COVID-19 RT-PCR Negative, Antibody Positive Residual Clinical Sample
CR-INFE-3020	COVID-19 PCR Positive Residual Clinical Swab
CR-INFE-3030	COVID-19 PCR Negative Residual Clinical Swab
CR-INFE-3210	Chagas Positive Residual Clinical Sample
CR-INFE-3040	COVID-19 Omicron PCR Positive
CR-INFE-3100	COVID-19 PCR Negative
CR-INFE-1830	Dengue IgM/IgG Positive Sample
CR-INFE-4500	Disease Negative Sample Residual Clinical Specific

RESIDUAL CLINICAL SAMPLES

INFECTIOUS

CR-INFE-1790	Epstein Barr Virus (EBV) PCR Positive
CR-INFE-1150	Erlchia IgG and/or IgM Positive Residual Clinical Sample
CR-INFE-1110	Filariasis Antibody Positive
CR-INFE-4090	Ganglioside Antibody Positive Residual Clinical Sample
CR-INFE-1070	Herpes Simplex Virus HSV PCR Positive Residual Clinical Sample
CR-INFE-1810	HHV PCR Positive
CR-INFE-1010	H. Pylori IgA Residual Clinical Sample
CR-INFE-1020	H. Pylori IgG Residual Clinical Sample
CR-INFE-1220	Human T-lymphotropic Virus(HTLV) Positive Residual Clinical Sample
CR-INFE-1030	HSV IgM Positive Residual Clinical Sample
CR-INFE-2290	Hepatitis B Surface Antigen HBsAg Positive Residual Clinical Sample
CR-INFE-2280	Hepatitis B Core IgM Positive Residual Clinical Sample
CR-INFE-1960	HSV PCR Negative
CR-INFE-5500	Hepatitis B Virus (HBV) Positive
CR-INFE-4000	High Total IgM
CR-INFE-4010	High Total IgG
CR-INFE-3130	Influenza A Positive- Price per 1 ML Residual Clinical Swab
CR-INFE-3140	Influenza B Positive- Price per 1 ML Residual Clinical Swab
CR-INFE-1090	Interleukin IL-6 Higher
CR-INFE-1950	Leptospira IgM Residual Clinical Sample
CR-INFE-2040	Legionella Ab Positive Residual Clinical Samples
CR-INFE-5000	Leishmania Ab Positive Residual Clinical Sample
CR-INFE-5010	Leishmania High Titre 640 and over Residual Clinical Sample
CR-INFE-2200	Malaria Antibody Positive Residual Clinical Sample
CR-INFE-2190	NS1 Positive Clinical Residual Samples
CR-INFE-1800	Procalcitonin Positive (Sepsis)

RESIDUAL CLINICAL SAMPLES

INFECTIOUS

CR-INFE-3150	Respiratory syncytial Virus Positive- Price per 1 ML Residual Clinical Swab
CR-INFE-1050	Rubella IgM Positive Residual Clinical Sample
CR-INFE-1770	Respiratory syncytical Virus IgG Positive
CR-INFE-1900	Sepsis Positive Serum
CR-INFE-1980	Swab Mycoplasma genitalium Positive Residual Clinical Sample
CR-INFE-2000	Strongyloides Ab Positive Residual Clinical Sample
CR-INFE-2400	Syphilis Positive Residual Clinical Samples
CR-INFE-1080	Salmonella typhi IgG Positive Residual Clinical Sample
CR-INFE-1190	Serum Measles IgM Positive Residual Clinical Sample
CR-INFE-1100	Schistosomiasis - Positive
CR-INFE-2020	Trichinella Ab Positive Residual Clinical Sample
CR-INFE-6000	Urine Legionella Antigen Clinical Residual Samples
CR-INFE-6010	Urine Pneumococcus Antigen Clinical Residual Samples
CR-INFE-1970	VZV PCR Negative
CR-INFE-1840	West Nile Virus (WNV) gG/IgM Positive Residual Clinical Sample
CR-INFE-1820	Zika Virus Positive Residual Clinical Sample

BULK PLASMA AND SERUM

ALLERGY POSITIVE

PB-ALLE-3600	Amoxicilloyl C6 Positive
PB-ALLE-2100	Allergy- High Multiple Specific IgE Positive
PB-ALLE-3000	Allergy Negative
PA-ALLE-1000	Allergy Panel 1ml serum, 1ml K2 EDTA plasma, 1ml whole blood
PA-ALLE-2110	Allergy Panel, Matched Set, Serum Sample with Phadia Data, price per ML
PA-ALLE-2120	Allergy Panel, Matched Set, Plasma Sample with Phadia Data, price per ML
PB-ALLE-2700	Antibiotic or Other Medicine IgE Positive
PB-ALLE-1100	Bird IgG Positive
PB-ALLE-3100	Dustmite and other Domestic Inhallants IgE Positive
PB-ALLE-3200	Epithelia, Dander or Epidermis IgE Positive
PB-ALLE-2400	Food IgE Positive
PB-ALLE-1000	Food Sensitivity (Food IgG) Positive
PB-ALLE-3300	Grass and Weed Pollen IgE Positive
PB-ALLE-1500	Human Anti Mouse Antibody HAMA Positive
PB-ALLE-1300	Human ECP positive
PB-ALLE-3500	High (Elevated) Total IgE
PB-ALLE-1010	Immunoglobulins G - IgG 4 subclasses
PB-ALLE-2200	Inhalant IgE Positive- High IgE
PB-ALLE-2500	Insect Venom IgE Positive (I1, I3, I5)
PB-ALLE-2800	Mould Allergy Positive
PB-ALLE-2000	Multiple Specific IgE Positive
PB-ALLE-2600	Occupational IgE Positive (K71, K83, K82)
PB-ALLE-3400	Tree Pollen IgE Positive
PB-ALLE-1400	Tryptase Positive

BULK PLASMA AND SERUM

AUTOIMMUNE ANTIBODY POSITIVE

PB-AUTO-1160	AMA M2 Antibody Positive
PB-AUTO-1000	ANA Antibody Positive
PB-AUTO-1250	ANA Negative
PB-AUTO-1030	ANCA Antibody Positive
PB-AUTO-1270	AMA M2-3E Antibody Positive
PB-AUTO-1440	ASCA Antibody Positive
PB-AUTO-1740	Acetylcholine Receptor Antibody Positive
PB-AUTO-1650	Addison's Disease (Adrenal Antibody) Positive
PB-AUTO-1710	ANNA-1 Antibody Positive
PB-AUTO-1670	ASCA Negative
PB-AUTO-1680	Autoimmune Hepatitis Positive
PB-AUTO-1950	Actin Antibody Positive
PB-AUTO-3700	Annexin V Ab IgG
PB-AUTO-2010	Autoimmune Marker Positive Plasma
PB-AUTO-2011	Autoimmune Marker Positive Serum
PB-AUTO-1920	Autoimmune Liver Disease Positive
PB-AUTO-1680	Autoimmune Hepatitis Positive (from earlier set)
PB-AUTO-1070	B2GP1 IgG Antibody Positive
PB-AUTO-1080	B2GP1 IgM Antibody Positive
PB-AUTO-1600	B2GP1 IgA Antibody Positive
PB-AUTO-1580	Bullous Pemphigoid Positive
PB-AUTO-1050	Cardiolipin IgG Antibody Positive
PB-AUTO-1060	Cardiolipin IgM Antibody Positive
PB-AUTO-3300	Celiac Marker Negative
PB-AUTO-1340	CCP IgG Antibody Positive
PB-AUTO-1450	Centromere Antibody Positive
PB-AUTO-1550	Cardiolipin IgA Antibody Positive
PB-AUTO-1530	Celiac Disease Positive
PB-AUTO-1770	C1q Antibody Positive

BULK PLASMA AND SERUM

AUTOIMMUNE ANTIBODY POSITIVE

PB-AUTO-1570	DFS-70 Antibody positive
PB-AUTO-3600	Dermatomyositis Positive Serum
PB-AUTO-2000	Digestive Problems Clinically Manifested
PB-AUTO-1570	DFS-70 Antibody positive (from earlier set)
PB-AUTO-1410	dsDNA Antibody positive
PB-AUTO-1150	ENA - Extractable Nuclear Antigens
PB-AUTO-1800	Elevated TSH Levels
PB-AUTO-1430	Endomysium Antibody Positive
PB-AUTO-1960	Fibrillarin Antibody Positive
PB-AUTO-1820	FYB Antibody Positive
PB-AUTO-1110	Gliadin IgG Antibody Positive
PB-AUTO-1120	Gliadin IgA Antibody Positive
PB-AUTO-1040	GBM Antibody Positive
PB-AUTO-1170	gp210 Antibody Positive
PB-AUTO-1780	GAD Antibody Positive
PB-AUTO-1780	GAD Antibody Positive (from earlier set)
PB-AUTO-2070	Graves Disease Positive
PB-AUTO-1480	Histone Antibody Positive
PB-AUTO-1090	Intrinsic Antibody Positive
PB-AUTO-1790	IA2 Insulin Antibody Positive
PB-AUTO-3000	IgA Negative
PB-AUTO-1790	IA2 Insulin Antibody Positive (from earlier set)
PB-AUTO-1400	Jo-1 Antibody Positive
PB-AUTO-1010	Ku Antibody Positive
PB-AUTO-1180	LC-1 Antibody Positive
PB-AUTO-1190	LKM-1 Antibody Positive
PB-AUTO-1500	Mitochondria Antibody Positive
PB-AUTO-1200	M2 3E Antibody Positive

BULK PLASMA AND SERUM

AUTOIMMUNE ANTIBODY POSITIVE

PB-AUTO-1700	Myelin Associated Glycoprotein Antibody Positive
PB-AUTO-1990	Mi-2 Antibody Positive
PB-AUTO-1900	Myasthenia Gravis Positive
PB-AUTO-2030	Myositis Antibody Positive
PB-AUTO-1930	Nucleolar Antibody Positive
PB-AUTO-1720	Nucleosome Antibody Positive
PB-AUTO-1720	Nucleosome Antibody Positive (from earlier set)
PB-AUTO-2020	OJ Antibody Positive
PB-AUTO-1510	Parietal Cell Antibody Positive
PB-AUTO-1590	Pemphigus Positive
PB-AUTO-1540	PL-7 Antibody Positive
PB-AUTO-1100	PR3 Antibody- cANCA Positive
PB-AUTO-1210	PML Antibody Positive
PB-AUTO-1260	pANCA - MPO Antibody Positive
PB-AUTO-1300	PCNA Antibody Positive
PB-AUTO-1280	PL-12 Antibody Positive
PB-AUTO-1470	Pm-75 Antibody Positive
PB-AUTO-1310	PMScl Antibody Positive
PB-AUTO-1910	Pancreas Antibody Positive
PB-AUTO-1940	Paraneoplastic Pemphigus Antibody Positive
PB-AUTO-3710	Prothrombin Antibody Positive
PB-AUTO-1620	Ribo P Antibody Positive
PB-AUTO-1640	Rheumatoid Factor (RF) IgA Positive
PB-AUTO-1610	RA33 Antibody Positive
PB-AUTO-1220	Ro-52 Antibody Positive
PB-AUTO-1330	RF IgM Antibody Positive
PB-AUTO-1320	RF IgG Antibody Positive
PB-AUTO-1980	RNA Polymerase Antibody Positive
PB-AUTO-1460	RNP Antibody Positive

BULK PLASMA AND SERUM

AUTOIMMUNE ANTIBODY POSITIVE

PB-AUTO-1350	SSA Antibody Positive
PB-AUTO-1360	SSB Antibody Positive
PB-AUTO-1290	SRP Antibody Positive
PB-AUTO-1230	SLA/LP Antibody Positive
PB-AUTO-1020	Sm Antibody Positive
PB-AUTO-1240	Sp100 Antibody Positive
PB-AUTO-1420	Smooth Muscle Antibody Positive
PB-AUTO-1520	SCL-70 Antibody Positive
PB-AUTO-1560	SLE Positive
PB-AUTO-1630	Sjogren's syndrome positive
PB-AUTO-1730	Sperm Antibody Positive
PB-AUTO-2090	Serum Amyloid A Positive
PB-AUTO-3100	Serum amyloid A (SAA)
PB-AUTO-2040	Sm/RNP Antibody Positive
PB-AUTO-1810	ssDNA Antibody Positive
PB-AUTO-3500	Specific Autoimmune Marker Negative
PB-AUTO-1130	tTG IgG Antibody Positive
PB-AUTO-1140	tTG IgA Antibody Positive
PB-AUTO-1370	TG Antibody Positive
PB-AUTO-1380	TPO Antibody Positive
PB-AUTO-1390	TSH Receptor Antibody Positive
PB-AUTO-1490	Type 2 Diabetes Positive
PB-AUTO-1750	TRIM21 Antibody Positive
PB-AUTO-1760	Titin Antibody Positive
PB-AUTO-1970	Th/To Antibody Positive
PB-AUTO-2080	Type 1 Diabetes Positive
PB-AUTO-1660	Von Willebrand factor
PB-AUTO-1690	Yo Antibody Positive
PB-AUTO-2050	Znt8 Antibody Positive

BULK PLASMA AND SERUM

INFECTIOUS DISEASE

PB-INFE-1060	Adenovirus IgG Positive
PB-INFE-1070	Adenovirus IgM Positive
PB-INFE-1080	Adenovirus IgA Positive
PB-INFE-1930	Aspergillus fumigatus IgG
PB-INFE-2330	Aspergillus IgM Positive
PB-INFE-2250	Anaplasma IgG Positive
PB-INFE-2950	Ascaris IgG Positive
PB-INFE-4400	ASO Anti Streptolysin Antibody Positive
PB-INFE-1000	Bartonella IgG Positive
PB-INFE-1090	Bordetella pertussis IgG Positive
PB-INFE-1100	Bordetella pertussis IgM Positive
PB-INFE-1110	Bordetella pertussis IgA Positive
PB-INFE-1120	Borrelia burgdorferi IgG Positive
PB-INFE-1130	Borrelia burgdorferi IgM Positive
PB-INFE-1150	Brucella abortus IgG Positive
PB-INFE-1160	Brucella abortus IgM Positive
PB-INFE-1170	Brucella abortus IgA Positive
PB-INFE-2260	Babesia Antibody Positive
PB-INFE-1180	Campylobacter jejuni IgG Positive
PB-INFE-1200	Campylobacter jejuni IgA Positive
PB-INFE-1210	Candida albicans IgG Positive
PB-INFE-1220	Candida albicans IgM Positive
PB-INFE-1230	Candida albicans IgA Positive
PB-INFE-1240	Chagas IgG
PB-INFE-1030	Chlamydia trachomatis IgG Positive
PB-INFE-1040	Chlamydia trachomatis IgM Positive
PB-INFE-1050	Chlamydia trachomatis IgA Positive
PB-INFE-1250	Chlamydia pneumoniae IgG Positive
PB-INFE-1260	Chlamydia pneumoniae IgM Positive
PB-INFE-1270	Chlamydia pneumoniae IgA Positive
PB-INFE-2230	Chlamydia psittaci IgG Positive

BULK PLASMA AND SERUM

INFECTIOUS DISEASE

PB-INFE-2240	C.difficile IgG Positive
PB-INFE-2180	Coxsackie B Virus IgG Positive
PB-INFE-1300	CMV IgG Low Avidity
PB-INFE-1310	Cytomegalo Virus IgG Positive
PB-INFE-3200	Chlamydia pneumoniae IgG Negative
PB-INFE-3340	Coxiella burnetti Phase 1 IgG
PB-INFE-3390	Coxiella burnetti Phase 2 IgG
PB-INFE-3400	Coxiella burnetti IgM Positive
PB-INFE-3410	Coxsackie IgM Positive
PB-INFE-3360	Cytomegalovirus IgG Negative
PB-INFE-3365	Cytomegalovirus IgG Negative Serum
PB-INFE-1320	Cytomegalo Virus IgM Positive
PB-INFE-1325	Cytomegalo Virus IgA Positive
PB-INFE-1280	Dengue IgA Positive
PB-INFE-3980	Chikungunya IgM Antibody Positive
PB-INFE-3990	Chikungunya IgG Antibody Positive
PB-INFE-4500	Chlamydia psittaci IgM
PA-INFE-2000	Chlamydia IgA/G/M Panel-Price per sample
PB-INFE-5130	Clostridium tetani toxin IgG Positive
PB-INFE-5010	Common Coronavirus HKU1 IgG Positive
PB-INFE-5020	Common Coronavirus OC43 IgG Positive
PB-INFE-5040	COVID-19 SARS-COV-2 IgG Positive by CE approved kits
PB-INFE-5050	COVID-19 SARS-CoV-2 Nucleoprotein IgG Positive
PB-INFE-5060	COVID-19 SARS-CoV-2 Spike IgG Positive
PB-INFE-5070	Common Coronavirus NL63 IgG Positive
PB-INFE-5080	Common Coronavirus 229E IgG Positive
PB-INFE-1340	Dengue Virus IgG Positive
PB-INFE-1350	Dengue Virus IgM Positive
PB-INFE-1360	Epstein-Barr Virus EBNA-1 IgG Positive
PB-INFE-1370	Epstein-Barr Virus EBNA-1 IgM Positive
PB-INFE-1380	Epstein-Barr Virus EBNA-1 IgA Positive

BULK PLASMA AND SERUM

INFECTIOUS DISEASE

PB-INFE-1390	Epstein-Barr Virus EA IgG Positive
PB-INFE-1400	Epstein-Barr Virus EA IgM Positive
PB-INFE-1410	Epstein-Barr Virus EA IgA Positive
PB-INFE-1420	Epstein-Barr Virus VCA IgG Positive
PB-INFE-1430	Epstein-Barr Virus VCA IgM Positive
PB-INFE-1440	Epstein-Barr Virus VCA IgA Positive
PB-INFE-1450	Enterovirus IgG Positive
PB-INFE-1460	Enterovirus IgM Positive
PB-INFE-1470	Enterovirus IgA Positive
PB-INFE-1960	Echinococcus IgG Positive
PB-INFE-2020	EBV IgG Negative
PB-INFE-2050	Echinococcus IgG Negative
PB-INFE-2130	EBNA IgG Negative
PB-INFE-3020	Elevated (High) IgA
PB-INFE-3030	Elevated (High) IgM
PB-INFE-4490	Entamoeba histolytica IgG
PB-INFE-4100	E Coli Positive IgG
PB-INFE-3330	Fasciola IgG Positive
PB-INFE-1480	Helicobacter pylori IgG Positive
PB-INFE-1490	Helicobacter pylori IgM Positive
PB-INFE-1500	Helicobacter pylori IgA Positive
PB-INFE-1510	Herpes Simplex Virus 1 IgG Positive
PB-INFE-1520	Herpes Simplex Virus 1 IgM Positive
PB-INFE-1530	Herpes Simplex Virus 1/2 IgG Positive
PB-INFE-1540	Herpes Simplex Virus 1/2 IgM Positive
PB-INFE-1560	Herpes Simplex Virus 2 IgG Positive
PB-INFE-1570	Herpes Simplex Virus 2 IgM Positive
PB-INFE-1940	Hepatitis E Virus IgG
PB-INFE-1950	Hepatitis C Virus (HCV) Antibody Positive
PB-INFE-1970	Hepatitis B Surface Antigen Positive

BULK PLASMA AND SERUM

INFECTIOUS DISEASE

PB-INFE-1990	Herpes Simplex Virus 1 IgG Negative
PB-INFE-2000	Herpes Simplex Virus IgG 1/2 Negative
PB-INFE-2010	Herpes Simplex Virus 2 IgG Negative
PB-INFE-2030	Herpes Simplex Virus 1 (HSV 1) IgM Negative
PB-INFE-2040	Herpes Simplex Virus 2 IgM Negative
PB-INFE-2170	Haemophilus Influenzae IgM Positive
PB-INFE-2280	Haemophilus Influenzae IgG Positive
PB-INFE-2360	Hepatitis A Virus IgG (HAV) Positive
PB-INFE-2110	Hepatitis A Virus IgM (HAV) Positive
PB-INFE-2140	Hepatitis D Antibody Positive
PB-INFE-2100	Hepatitis E Virus IgM Positive
PB-INFE-2300	Hepatitis B Core Antibody Positive
PB-INFE-2200	Human Immunodeficiency Virus (HIV) Positive
PB-INFE-2210	Human T-lymphotropic Virus I Positive
PB-INFE-2220	Human T-lymphotropic Virus II Positive
PB-INFE-2290	Human Metapneumovirus (hMPV) IgG Positive
PB-INFE-2320	hMPV 3 type B1 Lysate IgMer
PB-INFE-2350	hMPV 16 Type A1 Lysate
PB-INFE-2840	HHV6 Human Herpervirus 6 IgG Negative
PB-INFE-2850	HHV6 Human Herpervirus 6 IgM Positive
PB-INFE-2860	HHV6 Human Herpes Virus 6 IgG Positive
PB-INFE-2940	Hepatitis B core IgM Positive
PB-INFE-3070	Human Papillomavirus (HPV) IgG Positive
PB-INFE-3210	Helicobacter Pylori IgA Negative
PB-INFE-3320	HBe Negative
PB-INFE-3420	HBe Positive
PB-INFE-4410	Hantavirus IgG Positive
PB-INFE-1580	Influenza A IgG Positive
PB-INFE-1590	Influenza A IgM Positive
PB-INFE-1600	Influenza A IgA Positive
PB-INFE-2880	Influenza B IgG Negative

BULK PLASMA AND SERUM

INFECTIOUS DISEASE

PB-INFE-2890	Influenza A IgG Negative
PB-INFE-2900	Influenza B IgA Positive
PB-INFE-2910	Influenza B IgG Positive
PB-INFE-2930	Influenza B IgM Positive
PB-INFE-3050	Japanese encephalitis Virus IgM
PB-INFE-2380	Japanese encephalitis virus IgG
PB-INFE-1610	Legionella IgG Positive
PB-INFE-3060	Legionella IgG Negative
PB-INFE-3800	Leishmania IgG Positive
PB-INFE-1900	Leptospira IgG Positive
PB-INFE-2370	Leptospira IgM Positive
PB-INFE-2340	Legionella IgM Positive
PB-INFE-1920	Malaria Antibody Positive
PB-INFE-4000	Multiple Infectious Parameter Positive
PB-INFE-5140	Meningitis IgG Positive
PB-INFE-5090	MERS IgG Positive
PB-INFE-1620	Measles IgG Positive
PB-INFE-1630	Measles IgM Positive
PB-INFE-3300	Measles IgG Negative
PB-INFE-3310	Mumps IgG Negative
PB-INFE-1640	Mumps IgG Positive
PB-INFE-1650	Mumps IgM Positive
PB-INFE-1660	Mycoplasma hominis IgG Positive
PB-INFE-1670	Mycoplasma hominis IgM Positive
PB-INFE-1680	Mycoplasma hominis IgA Positive
PB-INFE-1690	Mycoplasma pneumoniae IgG Positive
PB-INFE-1700	Mycoplasma pneumoniae IgM Positive
PB-INFE-1710	Mycoplasma pneumoniae IgA Positive
PB-INFE-3000	Negative Plasma
PB-INFE-3005	Negative Serum

BULK PLASMA AND SERUM

INFECTIOUS DISEASE

PB-INFE-1720	Polio IgG Negative
PB-INFE-1730	Parainfluenza virus 1/2/3 IgG Positive
PB-INFE-1740	Parvovirus B19 IgG Positive
PB-INFE-1750	Parvovirus B19 IgM Positive
PB-INFE-1760	Parvovirus B19 PCR Positive
PB-INFE-2060	Parvovirus IgG Negative
PB-INFE-2870	Parainfluenza 1/2/3 IgG Negative
PB-INFE-3710	Polio Virus IgG Positive
PA-INFE-1000	Parvo Seroconversion Panel
PA-INFE-1100	Panel-Arbovirus -Price per 0.5 ML sample
PB-INFE-2160	Parainfluenza 1, 2, 3 IgM Positive
PB-INFE-1770	Respiratory syncytial Virus IgG Positive
PB-INFE-1780	Respiratory syncytial Virus IgM Positive
PB-INFE-1790	Respiratory syncytial Virus IgA Positive
PB-INFE-1800	Rubella IgG Positive
PB-INFE-1810	Rubella IgM Positive
PB-INFE-3370	Rubella IgG Negative
PB-INFE-3380	Rubella IgM Negative
PB-INFE-2190	Rhinovirus IgG Positive
PB-INFE-2310	Rhinovirus 1A Genome Polypeptide IgG Positive
PB-INFE-2270	Rickettsia IgG Antibody Positive
PB-INFE-2120	Salmonella typhi IgG Positive
PB-INFE-2150	Salmonella typhi IgA Positive
PB-INFE-2390	Salmonella typhi IgM Positive
PB-INFE-5030	SARS-COV-2 IgM (COVID-19) Positive
PB-INFE-5100	SARS IgG Positive
PB-INFE-5110	SARS-COV-2 IgA (COVID-19) Positive
PB-INFE-1020	Strongyloides IgG Positive
PB-INFE-1910	Syphilis Positive
PB-INFE-1915	Syphilis Positive Defibrinated Plasma
PB-INFE-5120	Synthetic Rubella IgM

BULK PLASMA AND SERUM

INFECTIOUS DISEASE

PB-INFE-1980	Taenia IgG Positive
PB-INFE-1820	Tick-borne encephalitis virus (FSME) IgG Positive
PB-INFE-1830	Tick-borne encephalitis virus (FSME) IgM Positive
PB-INFE-5000	TORCH IgM Negative
PB-INFE-2070	Toxoplasma Low Avidity IgG
PB-INFE-2080	Toxoplasma IgM Low Titre
PB-INFE-1840	Toxoplasma IgG Positive
PB-INFE-1850	Toxoplasma IgM Positive
PB-INFE-2960	Toxocara canis IgG Positive
PB-INFE-1010	Toxoplasma IgA Positive
PB-INFE-3350	Toxoplasma gondii IgG Negative
PB-INFE-1860	Ureaplasma urealyticum IgG Positive
PB-INFE-1870	Varicella zoster virus (VZV) IgG Positive
PB-INFE-1880	Varicella zoster virus (VZV) IgM Positive
PB-INFE-1890	Varicella Zoster Virus (VZV) IgA Positive
PB-INFE-3010	Varicella Zoster Virus (VZV) IgG Negative
PB-INFE-2090	West Nile Virus (WNV) IgG Positive
PB-INFE-3040	West Nile Virus (WNV) IgM Positive
PB-INFE-1140	Yellow Fever IgM Positive
PB-INFE-1290	Yellow Fever IgG Positive
PB-INFE-2970	Yersinia enterocolitica IgM Positive
PB-INFE-2980	Yersinia enterocolitica IgA Positive
PB-INFE-2990	Yersinia enterocolitica IgG Positive
PB-INFE-3970	Zika IgM Antibody Positive
PB-INFE-1330	Zika IgG Positive

SERVICES

SV-MISC-1000	Defibrination Service
SV-MISC-2010	Delipidisation Service

OTHER SAMPLES

BLOOD GROUP

PB-BGRP-1000 Anti-E Positive Plasma

CARDIOLOGY / LIPID / INFLAMMATORY MARKERS

PB-CARD-4000 BNP PLASMA
PB-CARD-1000 Bulk CRP High
PB-CARD-3000 Bulk CRP Low
PB-CARD-1020 D-Dimer Positive
PB-CARD-1010 High Lipid Plasma
PB-CARD-1015 Serum, Lipid Profile
CR-CARD-1020 Documented Heart Failure Samples
CR-CARD-1000 Digoxin Positive Residual Clinical Sample
CR-CARD-1030 Myoglobin Positive Residual Clinical Samples
CR-CARD-1010 Troponin I Residual Clinical Sample
CR-TUMO-1010 CKMB Positive Residual Clinical Sample

CELL SAMPLES

CL-NORM-1000 BMMCs, Cryopreserved
CL-NORM-3000 Leukopaks
CR-MEDI-1010 Medication Residual Clinical Sample
CR-NORM-3000 2x1ML Normal Panel with demographic data and BMI Residual Clinical Sample
CL-NORM-2000 PBMCs, Cryopreserved
CL-NORM-2010 PBMCs Set with Human Serum
CR-MEDI-1000 Vancomycin Positive Residual Clinical Sample

OTHER SAMPLES

CEREBROSPINAL FLUID (CSF)

AB-HFLU-1100	CSF Normal
CR-NORM-3009	CFS Normal
AB-HFLU-2000	Synthetic CSF

COAGULATION

PB-COAG-1000 Factor V Leiden Heterozygous

DEPLETED SERUM / PLASMA

PB-DEPL-1000	Healthy State Plasma, Defibrinated, Delipidised, 2 x Charcoal Stripped
PB-DEPL-1030	IgE Depleted Serum
PB-DEPL-1010	Steroid and Hormone Depleted Processed Serum
PB-DEPL-1020	TSH and T4 Depleted Processed Serum
PB-DEPL-3000	Troponin I Negative
PB-DEPL-1040	Vitamin Depleted Serum
PP-RNDP-1000	CRP Defficient Human Plasma

FULL BLOOD SAMPLES

FB-ALLE-2000	Allergy Positive Full Blood
FB-INFE-3000	COVID IgG Positive EDTA anticoagulant Full Blood
FB-NORM-1000	Citrate Anticoagulant, Normal Donor. 450ml Approx, Full Blood
FB-MISC-1000	Diabetic Whole Blood
FB-NORM-1100	EDTA Anticoagulant, Normal Donor, Full Blood
FB-AUTO-2000	K2 EDTA SLE and RA Donors- Frozen Full Blood
FB-NORM-1200	Sodium Heparin approx 450 mL unit, Full Blood

OTHER SAMPLES

HEALTHY STATE PLASMA

PB-NORM-1000	Citrated,Healthy State Plasma
PB-NORM-1004	Defibrinated,Healthy State Plasma
PB-NORM-1006	Defibrinated, Delipidised, Healthy State Plasma
PB-NORM-1007	Defibrinated, Delipidised, 2 x Charcoal Stripped,Healthy State Plasma
PB-NORM-1005	Healthy State Serum
PB-NORM-1003	K2 EDTA,Healthy State Plasma
PB-NORM-1009	K3 EDTA,Healthy State Plasma
PB-NORM-1002	Lithium Heparin,Healthy State Plasma
PB-NORM-3002	Lithium Heparin 1 mL samples,Healthy Plasma,
PB-NORM-1001	Sodium Heparin,Healthy State Plasma

HORMONES

PB-HORM-1010	ACTH Positive
CR-HORM-1000	Aldosterone Residual Clinical Sample
CR-NORM-1000	Aldosterone Positive Residual Clinical Sample
CR-NORM-2010	alpha-fetoprotein (AFP) Residual Clinical Samples
CR-HORM-4000	Bone ALP Positive Residual Clinical Sample
CR-HORM-5000	Beta-HCG
PB-HORM-1030	Cortisol Hormone Positive
CR-HORM-5010	Free Beta HCG
PB-HORM-3100	Gastrins Hormone
PB-HORM-1020	Haptoglobin Positive
CR-NORM-1100	Insulin Like Growth Factor (IgF)
PB-HORM-3000	Luteinizing Hormone (LH) Positive
CR-HORM-1010	Oestradiol
CR-HORM-2000	Parathyroid Hormone Positive
PB-HORM-2000	Parathyroid Hormone Positive
PB-HORM-2500	SHBG Positive

OTHER SAMPLES

HORMONES

CR-HORM-6000	Testosterone Positive
PB-HORM-1000	Testosterone Positive Male Plasma
CR-HORM-5020	Vitamin D Residual Clinical Sample

MATCHED SAMPLE SET

PA-NORM-1000	Normal Healthy Donor Matched Set Serum, EDTA, Heparin and Citrate min.
PR-SPEC-1000	Serum Sample and Blood Spot Custom Collected, with Donor Health Status questionnaire
PR-SPEC-1010	2 x 10 ⁶ PBMCs and 5 ML Serum Set
PA-MISC-2000	Stool and Whole Blood ,Matched Set, Normal Donor,

ONCOLOGY

CR-TUMO-1020	Benign Liver Diseases
PB-TUMO-2000	Beta 2 Microglobulin
CR-TUMO-1230	CA19.9 Positive
CR-TUMO-1231	CA 15.3 Positive
CR-TUMO-1232	CA 125 Positive
CR-TUMO-1240	CA72.4 Positive Residual Clinical Sample
CR-TUMO-1250	CA125 Positive Residual Clinical Sample
CR-TUMO-1290	CA 15-3 Residual Clinical Sample
PB-TUMO-3000	CEA Positive
CR-TUMO-1270	Cyfra 21-1
PB-TUMO-1000	Elevated PSA Levels
PB-TUMO-9000	High Titre IgE Myeloma
PB-TUMO-8900	IgA Myeloma
CR-TUMO-1300	Kappa Residual Clinical Sample
PB-TUME-9010	Multiple Myeloma Positive
CR-TUMO-1280	NSE

OTHER SAMPLES

ONCOLOGY

CR-TUMO-1040	Oncology Positive K2 EDTA
CR-TUMO-1000	PSA Residual Clinical Sample
CR-TUMO-1030	Residual Clinical Samples-HCC
CR-TUMO-1260	SCC TA4

PLATELETS

PL-NORM-1000	Platelets washed in 0.09% Azide
PL-NORM-1010	Platelets

PREGNANCY

AB-HFLU-1000	Amniotic Fluid 3rd Trimester
CR-NORM-2000	Pregnancy Residual Clinical Samples

STOOL SAMPLES

CR-STOO-1000	Stool Calprotectin : > 120 µg/g
CR-STOO-1100	Salmonella Typhi Stool Samples

URINE SAMPLES

CR-MISC-1000	B12 Normal
CR-MISC-2000	B12 Elevated

VITAMIN SAMPLES

FM-TUMO-1000	Diseased Urine
FM-NORM-2000	Normal Human Urine
CR-CHRO-1000	Renal Diseased Urine

PROTOCOLS



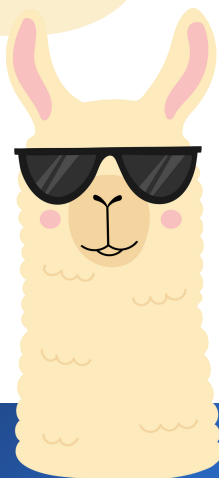
PLASMA PROCESSING KNOW-HOW

With over 15 years of experience, AbBaltis is a leading supplier of disease-state plasma and serum to the global IVD and biotech industries. Our scientific team brings deep expertise in the sourcing, processing, and characterization of human biological materials, specializing in infectious and autoimmune diseases.



This Know-How section shares key insights into our validated methods for plasma processing, including delipidation, defibrination, and analyte stabilization. We also detail our quality control practices and assay compatibility, helping you make informed decisions for your research, diagnostic development, or manufacturing needs.

Would you like us to add other protocols you'd find helpful? Email us at catalog@abbaltis.com—we'll do our best to include them in the next edition of our catalogue.



THROMBIN PREPARATION & DEFIBRINATION PROTOCOL

THROMBIN PREPARATION

- 1- Leave frozen thrombin to stand in the biosafety cabinet for 5 minutes prior to preparation.
- 2- Bovine thrombin is resuspended prior to defibrination, using dH₂O; 1ml in 1000 units/ml, as per the bottle instructions. Ensure thrombin is fully dissolved before use.

***NOTE* Thrombin not used on the day is returned to the freezer immediately after use. Once resuspended, Thrombin only lasts for 1 week at 4 °C**

DEFIBRINATION PROTOCOL

- 1- Thaw frozen plasma until fully thawed; keeping plasma as cool as possible throughout the process.
- 2- Add Thrombin: 1ml per 100ml of plasma.
- 3- Gradually warm the plasma while continuing to mix.
- 4- Invert the bottle every 30 minutes to ensure thrombin is dispersed throughout the plasma. Clotting typically initiates around 12–15°C.
- 5- This step usually takes 2 hours.

Recommended: At this stage, samples can be frozen and processed the following day for easier clot separation.

- 6- Remove visible clots, and aliquot defibrinated plasma into a new, labelled bottle, avoid disturbing the clot.
- 7- If required centrifuge at $2,000 \times g$ for 10 minutes.



DELIPIDATION PROTOCOL

- If using plasma: Defibrinate before starting the delipidation process.
- If using of the- clot serum: No pre-processing is required.

⚠ Fumed silica should be handled with care. When measuring and processing, always use a lab coat, gloves, safety goggles, and a face mask.

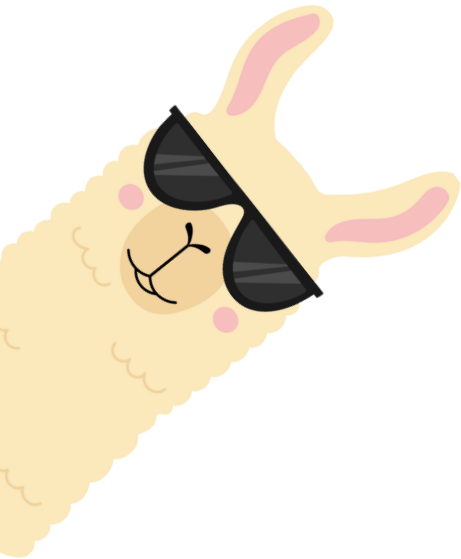
1- Add 20 g of fumed silica per 1 litre of serum (or 20 mg of silica per 1 mL of serum)

- Example: For 10 mL of serum, use 0.2 g of silica.

2- Mix for 2–3 hours, either by hand every few minutes or using a rotator.

3- For 15 minutes, centrifuge the sample at $2,000 \times g$.

4- Transfer the delipidated product (supernatant) into a new, labelled bottle, avoiding any silica residue or pellet.



STABILITY OF HUMAN IMMUNOGLOBULIN IN DISEASE STATE PLASMA

Our customers frequently ask for guidance on how to properly handle and store disease-state plasma and serum samples, particularly with regard to maintaining analyte stability during refrigeration, freezing, and long-term storage. To help address these questions, we have put together a practical list of tips covering best practices for freezing, thawing, and storing samples, along with key considerations for minimizing degradation. We have also included a selection of scientific articles that highlight how long-term storage and repeated freeze/thaw cycles can affect the stability of critical immunoglobulins such as IgA, IgE, IgG and IgM.

TIPS TO PRESERVE DISEASE STATE PLASMA STABILITY

- 1- Aliquot the material into small volumes appropriate for your experimental needs, and store the aliquots at -20°C to -80°C to preserve stability and avoid repeated freeze-thaw cycles.
- 2- To prevent contamination with bacteria or fungi, process all samples in a certified microbiological safety cabinet under sterile conditions.
- 3- To minimize oxidation of the samples, leave as little headspace as possible in vials and bottles. However, a small amount of headspace is necessary to prevent leakage due to expansion or pressure changes.
- 4- Samples should **not** be stored in frost-free freezer.
- 5- To preserve the stability of immunoglobulins, samples should be protected from light exposure, as prolonged light can lead to protein degradation and reduced assay reliability.

LONG-TERM AND FREEZE/THAW STABILITY OF SERUM IMMUNOGLOBULINS

Antibodies including IgE, IgG, IgM, and IgA exhibit high stability under various preanalytical conditions. Allergen-specific IgE remains stable despite delayed centrifugation, prolonged storage at 5°C, and multiple freeze-thaw cycles (Østergaard and Sandfeld-Paulsen, 2023). IgG and IgM maintain detectability and stability after up to ten freeze-thaw cycles without significant impact on assay performance (Siennicka et al., 2010). Also, antibodies (IgA, IgG, and IgM) against *Salmonella*, *Yersinia enterocolitica*, and *Mycoplasma pneumoniae*, are stable for up to 30 freeze-thaw cycles. (Ekelund et al., 2012). IgE shows good stability across multiple freeze-thaw cycles (Zhang et al., 2021) and remains measurable after long-term storage of 32 to 37 years, with levels comparable or higher than those stored for five years (Golden and Banerji, 1998). Furthermore, long-term storage does not significantly affect toxoplasmosis serology interpretation, indicating stable IgG and IgM levels over extended periods (Dard et al., 2017). These findings collectively support the robustness of antibody measurements despite repeated freeze-thaw events and extended storage durations.



If you have any technical questions, encounter any difficulties, or need further clarification regarding the protocols, our team is here to help. Please don't hesitate to reach out to us directly, we're happy to support you

LIST OF ARTICLES

1. **Ekelund, K., Lind, K., Bruun, B., and Nielsen, H. (2012)** 'Stability of IgA, IgG, and IgM antibodies to *Mycoplasma pneumoniae*, *Yersinia enterocolitica* and *Salmonella* antigens in sera subjected to multiple freeze-thaw cycles', *Journal of Immunological Methods*, 377(1-2), pp. 17-22. doi: 10.1016/j.jim.2011.12.010
2. **Zhang, Y., Smith, J., and Lee, A. (2021)** 'Stability of IgE antibodies under freeze-thaw conditions', *Journal of Allergy and Clinical Immunology*, 148(5), pp. 1234-1240. doi: 10.1016/j.jaci.2021.05.017.
3. **Golden, D.B.K., and Banerji, A. (1998)** 'Stability of serum IgE during long-term storage', *Clinical and Experimental Allergy*, 28(4), pp. 432-435. doi: 10.1046/j.1365-2222.1998.00321.x.
4. **Østergaard M, Sandfeld-Paulsen B.(2023)** Preanalytical temperature and storage stability of specific IgE antibodies in serum. *Scand J Clin Lab Invest.*;83(3):160-165. doi: 10.1080/00365513.2023.2188606. Epub 2023 Mar 29. PMID: 36988143.
5. **Siennicka, J., Laskowska, A., and Trzcińska, A. (2010)** 'Evaluating the influence of repeated thaw/freezing cycles on IgG and IgM stability', *Medycyna Doswiadczalna i Mikrobiologia*, 62(3), pp. 281-283. PMID: 21114021.
6. **Dard, C., Bailly, S., Drouet, T., Fricker-Hidalgo, H., Brenier-Pinchart, M.-P., and Pelloux, H. (2017)** 'Long-term sera storage does not significantly modify the interpretation of toxoplasmosis serologies', *Journal of Microbiological Methods*, 134, pp. 38-45. doi: 10.1016/j.mimet.2017.01.003.



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