

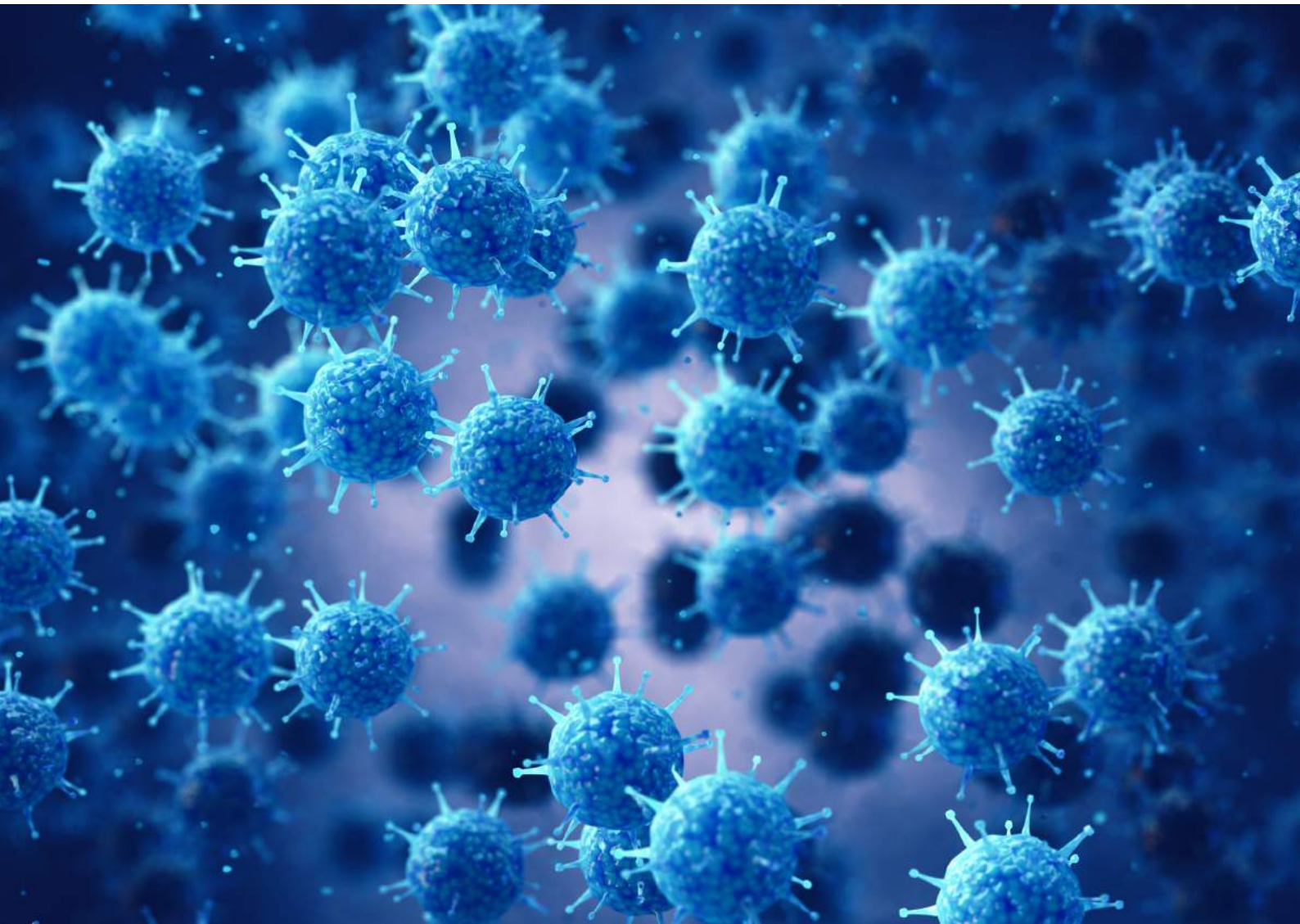


The
NativeAntigen
COMPANY

Product Catalogue

Antigens, Antibodies, Toxins, Receptors, Disease Markers and Immunoassays.

January 2022



Antigens

The Native Antigen Company produces both native and recombinant antigens for a range of established and emerging viral and bacterial diseases. Our antigens are suitable for use in vaccine R&D, as critical reagents for the development of serological diagnostic assays and for fundamental research into infectious diseases. Our HEK293 **VirtuE™** expression system is able to introduce proper protein folding and full post-translational modifications, to ensure native-like antigenicity and biological activity.

Antigen	Source	Purity	Presentation
<i>A. californica</i> Multiple Nucleopolyhedrovirus Lysate	Insect Cell Recombinant	Cell Lysate	Liquid
Adenovirus Type 3, Wild-Type Particles	Native	99%	Liquid
Adenovirus Type 5, Wild-Type Particles	Native	99%	Liquid
Adenovirus Type 11, Wild-Type Particles	Native	99%	Liquid
Adenovirus Type 40, Wild-Type Particles	Native	99%	Liquid
Adenovirus Type 40 Hexon Protein	Native	99%	Liquid
African Swine Fever Virus p30	<i>E. coli</i> Recombinant	>90%	Lyophilised
African Swine Fever Virus p30	Insect Cell Recombinant	>85%	Liquid
African Swine Fever Virus p72	<i>E. coli</i> Recombinant	>95%	Liquid
African Swine Fever Virus pp62 Polyprotein	Native	>85%	Liquid
Astrovirus Type 1 Antigen	Native	Cell Lysate	Liquid
<i>Bordetella pertussis</i> Adenylate Cyclase	<i>E. coli</i> Recombinant	>90%	Liquid
<i>Bordetella pertussis</i> Filamentous Hemagglutinin (FHA)	Native	98%	Liquid
<i>Bordetella pertussis</i> Toxin	Native	98%	(Various)
<i>Borrelia afzelii</i> Antigen	Native	N/A	Liquid
<i>Borrelia burgdorferi</i> C(p)	<i>E. coli</i> Recombinant	>90%	Liquid
<i>Borrelia burgdorferi</i> C(t)	<i>E. coli</i> Recombinant	>90%	Liquid
<i>Borrelia burgdorferi</i> CRASP-1	<i>E. coli</i> Recombinant	>90%	Liquid
<i>Borrelia burgdorferi</i> CRASP-2	<i>E. coli</i> Recombinant	>90%	Liquid
<i>Borrelia burgdorferi</i> DbpA	<i>E. coli</i> Recombinant	>90%	Liquid
<i>Borrelia burgdorferi</i> DbpB	<i>E. coli</i> Recombinant	>90%	Liquid
<i>Borrelia burgdorferi</i> ErpD/Arp37	<i>E. coli</i> Recombinant	>90%	Liquid
<i>Borrelia burgdorferi</i> ErpN/OspE	<i>E. coli</i> Recombinant	>90%	Liquid
<i>Borrelia burgdorferi</i> Flagellin	<i>E. coli</i> Recombinant	>90%	Liquid
<i>Borrelia burgdorferi</i> OspA	<i>E. coli</i> Recombinant	>90%	Liquid
<i>Borrelia burgdorferi</i> OspB	<i>E. coli</i> Recombinant	>90%	Liquid
<i>Borrelia burgdorferi</i> OspC	<i>E. coli</i> Recombinant	>90%	Liquid
<i>Borrelia burgdorferi</i> P35	<i>E. coli</i> Recombinant	>90%	Liquid
<i>Borrelia burgdorferi</i> P39	<i>E. coli</i> Recombinant	>90%	Liquid
<i>Borrelia burgdorferi</i> Surface Lipoprotein P27	<i>E. coli</i> Recombinant	>90%	Liquid

Antigen	Source	Purity	Presentation
<i>Borrelia burgdorferi</i> VlsE	<i>E. coli</i> Recombinant	>90%	Liquid
<i>Borrelia garinii</i> Antigen	Native	N/A	Liquid
<i>Borrelia miyamotoi</i> GlpQ	<i>E. coli</i> Recombinant	>90%	Liquid
<i>Brucella abortus</i> Antigen	Native	>95%	Liquid
<i>Campylobacter jejuni</i> Antigen	Native	>95%	Liquid
<i>Candida albicans</i> Antigen	Native	>95%	Liquid
Canine Adenovirus 1 Antigen	Native	N/A	Liquid
Canine Adenovirus 2 Antigen	Native	N/A	Liquid
Canine Coronavirus Antigen	Native	N/A	Liquid
Canine Distemper Virus Antigen	Native	N/A	Liquid
Canine Herpes Virus Antigen	Native	N/A	Liquid
Canine Parainfluenza Virus Antigen	Native	>90%	Liquid
Canine Parvovirus 2 VP2 Capsid Protein	Insect Cell Recombinant	>90%	Lyophilised
Canine Parvovirus Antigen	Native	N/A	Liquid
Chikungunya Virus E1 Envelope Protein	HEK293 Recombinant	95%	Liquid
Chikungunya Virus E1 Envelope Protein	Insect Cell Recombinant	≥95%	Liquid
Chikungunya Virus E2 Envelope Protein	<i>E. coli</i> Recombinant	≥95%	Liquid
Chikungunya Virus E2 Envelope Protein	HEK293 Recombinant	95%	Liquid
Chikungunya Virus Lysate	Native	Cell Lysate	Liquid
Chikungunya Virus Mutant (A226V) E1 Envelope Protein	Insect Cell Recombinant	≥95%	Liquid
Chikungunya Virus VLP (E1 E2 C protein)	HEK293 Recombinant	>90%	Liquid
<i>Chlamydia trachomatis</i> Antigen	Native	Cell lysate	Liquid
Cholera Toxin Subunit B	HEK293 Recombinant	>90%	Lyophilised
<i>Clostridium difficile</i> Toxin A	Native	98%	Lyophilised
<i>Clostridium difficile</i> Toxin A Ribotype 027	Native	>95%	Lyophilised
<i>Clostridium difficile</i> Toxin A Ribotype 078	Native	>90%	Lyophilised
<i>Clostridium difficile</i> Toxin B	Native	98%	Lyophilised
<i>Clostridium difficile</i> Toxin B Ribotype 027	Native	>95%	Lyophilised
<i>Clostridium difficile</i> Toxin B Ribotype 078	Native	>90%	Lyophilised
<i>Clostridium difficile</i> Toxoid A	Native	98%	Lyophilised
<i>Clostridium difficile</i> Toxoid B	Native	98%	Lyophilised
Crimean Congo Hemorrhagic Fever Virus Gc Protein	HEK293 Recombinant	>90%	Liquid
Crimean Congo Hemorrhagic Fever Virus Gn Protein	HEK293 Recombinant	>90%	Liquid
Crimean Congo Hemorrhagic Fever Virus Nucleoprotein	HEK293 Recombinant	>95%	Liquid
<i>Cryptosporidium parvum</i> Oocyst Lysate	Native	Cell Lysate	Liquid
Cytomegalovirus Cell Lysate Antigen	Native	Cell Lysate	Liquid

Antigen	Source	Purity	Presentation
Cytomegalovirus gH Pentamer Complex	HEK293 Recombinant	>95%	Liquid
Cytomegalovirus Glycoprotein B (gB)	HEK293 Recombinant	>95%	Lyophilised
Cytomegalovirus Purified Antigen	Native	95%	Liquid
Dengue Virus NS1 Protein Serotypes 1-4	HEK293 Recombinant	>95%	Liquid
Dengue Virus Serotype 1 & 3 Envelope Fusion Protein	<i>E. coli</i> Recombinant	>95%	Liquid
Dengue Virus Serotype 1 & 4 Envelope Fusion Protein	<i>E. coli</i> Recombinant	>95%	Liquid
Dengue Virus Serotype 1 DIII envelope protein	<i>E. coli</i> Recombinant	>95%	Liquid
Dengue Virus Serotype 1 Envelope Protein	Insect Cell Recombinant	>95%	Liquid
Dengue Virus Serotype 1 Envelope Protein	HEK293 Recombinant	>90%	Liquid
Dengue Virus serotype 1 Lysate	Native	N/A	Liquid
Dengue Virus Serotype 1 NS1 Protein	HEK293 Recombinant	>95%	Liquid
Dengue Virus Serotype 1 NS1 Protein	Insect Cell Recombinant	>95%	Liquid
Dengue Virus Serotype 1 VLP	HEK293 Recombinant	>95%	Liquid
Dengue Virus Serotype 2 & 4 Envelope Fusion Protein	<i>E. coli</i> Recombinant	>95%	Liquid
Dengue Virus Serotype 2 DIII Envelope protein	<i>E. coli</i> Recombinant	>95%	Liquid
Dengue Virus Serotype 2 Envelope Hydrophobic Domain	<i>E. coli</i> Recombinant	>95%	Liquid
Dengue Virus Serotype 2 Envelope Protein	HEK293 Recombinant	>95%	Liquid
Dengue Virus Serotype 2 Envelope Protein	Insect Cell Recombinant	>95%	Liquid
Dengue Virus serotype 2 Lysate	Native	Cell Lysate	Liquid
Dengue Virus Serotype 2 NS1 Protein	HEK293 Recombinant	>95%	Liquid
Dengue Virus Serotype 2 NS1 Protein	Insect Cell Recombinant	>95%	Liquid
Dengue Virus Serotype 2 VLP	HEK293 Recombinant	>95%	Liquid
Dengue Virus Serotype 3 DIII Envelope Protein	<i>E. coli</i> Recombinant	>95%	Liquid
Dengue Virus Serotype 3 Envelope Protein	HEK293 Recombinant	>90%	Liquid
Dengue Virus Serotype 3 Envelope Protein	Insect Cell Recombinant	>90%	Liquid
Dengue Virus serotype 3 Lysate	Native	Cell Lysate	Liquid
Dengue Virus Serotype 3 NS1 Protein	HEK293 Recombinant	>95%	Liquid
Dengue Virus Serotype 3 NS1 Protein	Insect Cell Recombinant	>95%	Liquid
Dengue Virus Serotype 3 VLP	HEK293 Recombinant	>95%	Liquid
Dengue Virus Serotype 4 DIII Envelope Protein	<i>E. coli</i> Recombinant	>95%	Liquid
Dengue Virus Serotype 4 Envelope Protein	HEK293 Recombinant	>90%	Liquid
Dengue Virus Serotype 4 Envelope Protein	Insect Cell Recombinant	>95%	Liquid
Dengue Virus Serotype 4 Lysate	Native	Cell Lysate	Liquid
Dengue Virus Serotype 4 NS1 Protein	HEK293 Recombinant	>95%	Liquid
Dengue Virus Serotype 4 NS1 Protein	Insect Cell Recombinant	>95%	Liquid
Dengue Virus Serotype 4 VLP	HEK293 Recombinant	>95%	Liquid

Antigen	Source	Purity	Presentation
Diphtheria Toxin	Native	>98%	Lyophilised
Diphtheria Toxin, CRM197 Mutant	<i>E. coli</i> Recombinant	>99%	Lyophilised
Diphtheria Toxoid	Native	>98%	Lyophilised
EBOV Envelope Glycoprotein (GP) (Zaire, Boende-Loko-	HEK293 Recombinant	>85%	Liquid
EBOV Envelope Glycoprotein (GP) (Zaire, Kikwit-95)	HEK293 Recombinant	>85%	Lyophilised
EBOV Envelope Glycoprotein (GP1) (Bundibugyo)	HEK293 Recombinant	>95%	Lyophilised
EBOV Envelope Glycoprotein (GP1) (Zaire, Boende-Loko-	HEK293 Recombinant	>85%	Liquid
EBOV Envelope Glycoprotein (GP1) (Zaire, Kikwit-95)	HEK293 Recombinant	>95%	Lyophilised
EBOV Envelope Glycoprotein (GP1) Mucin-Like Region	<i>E. coli</i> Recombinant	>95%	Liquid
EBOV Nucleoprotein (NP) (Sudan)	<i>E. coli</i> Recombinant	>95%	Liquid
EBOV Nucleoprotein (NP) (Zaire)	<i>E. coli</i> Recombinant	>95%	Liquid
EBOV Secreted Glycoprotein (sGP) (Bundibugyo)	HEK293 Recombinant	>95%	Lyophilised
EBOV VP40 (Zaire)	<i>E. coli</i> Recombinant	>95%	Liquid
EBOV VLP	HEK293 Recombinant	>80%	Liquid
<i>Echinococcus granulosus</i> Antigen	Native	>95%	Liquid
Echovirus Antigen	<i>E. coli</i> Recombinant	N/A	Liquid
Enterovirus Antigen	<i>E. coli</i> Recombinant	N/A	Liquid
Enterovirus CoxB3 VP1 Protein	<i>E. coli</i> Recombinant	>85%	Liquid
Epstein Barr Virus gp125	HEK293 Recombinant	>80%	Liquid
Feline Calicivirus Antigen	Native	N/A	Liquid
Feline Immunodeficiency Virus Core Protein	<i>E. coli</i> Recombinant	90%	Liquid
Feline Infectious Peritonitis Virus Antigen	Native	N/A	Liquid
Feline Panleukopenia Virus Antigen	Native	N/A	Liquid
Feline Viral Rhinotracheitis Antigen	Native	N/A	Liquid
<i>Giardia lamblia</i> Cysts	Native	N/A	Liquid
Hantaan Virus Nucleoprotein	<i>E. coli</i> Recombinant	>95%	Liquid
Hantaan Virus Nucleoprotein	HEK293 Recombinant	N/A	Liquid
<i>Helicobacter pylori</i> Antigen	Native	>95%	Liquid
Hepatitis B Virus Core Antigen (HBcAg)	<i>E. coli</i> Recombinant	>95%	Liquid
Hepatitis B Virus E Antigen (HBeAg)	<i>E. coli</i> Recombinant	>95%	Liquid
Hepatitis C Virus Core Antigen (HCCAg)	<i>E. coli</i> Recombinant	>95%	Liquid
Hepatitis E Virus Capsid Protein (ORF2)	HEK293 Recombinant	>95%	Liquid
Herpes Simplex Virus 1 Antigen	Native	80%	Liquid
Herpes Simplex Virus 1 Lysate Antigen	Native	Cell Lysate	Liquid
Herpes Simplex Virus 2 Antigen	Native	80%	Liquid
Herpes Simplex Virus 2 Lysate Antigen	Native	Cell Lysate	Liquid

Antigen	Source	Purity	Presentation
Herpes Simplex Virus gG2 Protein	Native	≥80%	Liquid
HCoV-229E Nucleoprotein (E. coli)	<i>E. coli</i> Recombinant	>95%	Liquid
HCoV-229E Purified Viral Lysate	Native	N/A	Liquid
HCoV-229E Spike Glycoprotein (Full-Length)	HEK293 Recombinant	>95%	Liquid
HCoV-229E Spike Glycoprotein (S1)	HEK293 Recombinant	>95%	Liquid
HCoV-HKU1 Nucleoprotein	<i>E. coli</i> Recombinant	>95%	Liquid
HCoV-HKU1 Spike Glycoprotein (Full-Length)	HEK293 Recombinant	>85%	Liquid
HCoV-HKU1 Spike Glycoprotein (S1)	HEK293 Recombinant	>95%	Liquid
HCoV-NL63 Nucleoprotein (E. coli)	<i>E. coli</i> Recombinant	>95%	Liquid
HCoV-NL63 Purified Viral Lysate	Native	N/A	Liquid
HCoV-NL63 Spike Glycoprotein (Full-Length)	HEK293 Recombinant	>95%	Liquid
HCoV-NL63 Spike Glycoprotein (S1)	HEK293 Recombinant	>95%	Liquid
HCoV-OC43 Nucleoprotein	<i>E. coli</i> Recombinant	>95%	Liquid
HCoV-OC43 Purified Viral Lysate	Native	N/A	Liquid
HCoV-OC43 Spike Glycoprotein (Full-Length)	HEK293 Recombinant	>95%	Liquid
HCoV-OC43 Spike Glycoprotein (S1)	HEK293 Recombinant	>95%	Liquid
HIV Gag Protein [HIV-1/Clade B (IIIB)]	<i>E. coli</i> Recombinant	>90%	Liquid
HIV GP120 Protein [HIV-1/Clade A (KNH1144)]	HEK293 Recombinant	>95%	Liquid
HIV GP120 Protein [HIV-1/Clade AE (CM240)]	HEK293 Recombinant	>95%	Liquid
HIV GP120 Protein [HIV-1/Clade B (89BZ_167)]	HEK293 Recombinant	>95%	Liquid
HIV GP120 Protein [HIV-1/Clade C (16055)]	HEK293 Recombinant	>95%	Liquid
HIV GP120 Protein [HIV-1/Clade E (CM244)]	HEK293 Recombinant	>95%	Lyophilised
HIV GP41 Protein [HIV-1/Clade B (IIIB)]	<i>E. coli</i> Recombinant	>95%	Liquid
HIV GP41 Protein [HIV-1/Clade B]	<i>E. coli</i> Recombinant	>95%	Liquid
HIV GP41 Protein [HIV-1/Group O]	<i>E. coli</i> Recombinant	>95%	Liquid
HIV Integrase Protein [HIV-1/Clade B (IIIB)]	<i>E. coli</i> Recombinant	>90%	Liquid
HIV Nef Protein [HIV-1/Clade B (IIIB)]	<i>E. coli</i> Recombinant	>90%	Liquid
HIV p24 Protein [HIV-1/Clade B]	HEK293 Recombinant	>85%	Liquid
HIV P24 Protein [HIV-1/Clade C]	<i>E. coli</i> Recombinant	>95%	Liquid
HIV Reverse Transcriptase Protein [HIV-1/Clade B (IIIB)]	<i>E. coli</i> Recombinant	>90%	Liquid
HIV Tat Protein [HIV-1/Clade A (UGMED5)]	<i>E. coli</i> Recombinant	>90%	Lyophilised
HIV Tat Protein [HIV-1/Clade B (BH10)]	<i>E. coli</i> Recombinant	>90%	Lyophilised
HIV Tat Protein [HIV-1/Clade C (TV019)]	<i>E. coli</i> Recombinant	>90%	Lyophilised
HIV Tat Protein [HIV-1/Clade D (UG28R)]	<i>E. coli</i> Recombinant	>90%	Lyophilised
Human Metapneumovirus (hMPV) 3 Type B1 Lysate	Native	N/A	Liquid
Human Metapneumovirus (hMPV) 9 Type A1 Lysate	Native	N/A	Liquid

Antigen	Source	Purity	Presentation
Human Metapneumovirus (hMPV) A Glycoprotein G	HEK293 Recombinant	90%	Liquid
Human Metapneumovirus (hMPV) B Glycoprotein F0	HEK293 Recombinant	>95%	Liquid
Human Metapneumovirus (hMPV) B Glycoprotein G	HEK293 Recombinant	>95%	Liquid
Human Parainfluenza Virus Type 3 Lysate	Native	N/A	Liquid
Human Parainfluenza Virus Type 4A Lysate	Native	N/A	Liquid
Influenza A [A/California/07/2009 (H1N1pdm)] Lysate	Native	Cell Lysate	Liquid
Influenza A [A/Cambodia/2020 (H3N2-Like)] HA	HEK293 Recombinant	>95%	Liquid
Influenza A [A/Cambodia/2020 (H3N2-Like)] NA	HEK293 Recombinant	>90%	Liquid
Influenza A [A/Darwin/9/2021 (H3N2)-Like] HA	HEK293 Recombinant	>95%	Liquid
Influenza A [A/Darwin/9/2021 (H3N2)-Like] NA	HEK293 Recombinant	>95%	Liquid
Influenza A [A/Guinea fowl/HK/WF10/1999 (H9N2)] HA	HEK293 Recombinant	>95%	Lyophilised
Influenza A [A/Guinea fowl/HK/WF10/1999 (H9N2)] HA1	HEK293 Recombinant	>95%	Lyophilised
Influenza A [A/Hawaii/70/2019 (H1N1pdm09-Like)] HA	HEK293 Recombinant	>95%	Liquid
Influenza A [A/Hawaii/70/2019 (H1N1pdm09-Like)] NA	HEK293 Recombinant	>95%	Liquid
Influenza A [A/Hong Kong/1/1968 (H3N2)] NP	<i>E. coli</i> Recombinant	>95%	Liquid
Influenza A [A/Hong Kong/1/1968 (H3N2)] Lysate	Native	Cell Lysate	Liquid
Influenza A [A/Hong Kong/45/2019 (H3N2)] HA	HEK293 Recombinant	>95%	Liquid
Influenza A [A/Hong Kong/45/2019 (H3N2)] NA	HEK293 Recombinant	>95%	Liquid
Influenza A [A/Hong Kong/483/1997 (H5N1)] HA	HEK293 Recombinant	>95%	Lyophilised
Influenza A [A/New Caledonia/20/1999 (H1N1)] Lysate	Native	Cell Lysate	Liquid
Influenza A [A/Ohio/12/2017 (H3N2)] NA	HEK293 Recombinant	>95%	Liquid
Influenza A [A/Puerto Rico/8/1934 (H1N1)] HA	HEK293 Recombinant	>95%	Liquid
Influenza A [A/Shanghai/2/2013(H7N9)] HA	HEK293 Recombinant	>95%	Liquid
Influenza A [A/Swine/Shandong/1207/2016 (H1N1)] HA	HEK293 Recombinant	>95%	Liquid
Influenza A [A/Thailand/1(KAN-1)/2004 (H5N1)] NA	HEK293 Recombinant	>95%	Liquid
Influenza A [A/Wisconsin/588/2019 (H1N1)-Like] HA	HEK293 Recombinant	>95%	Liquid
Influenza A [A/Wisconsin/588/2019 (H1N1)-Like] NA	HEK293 Recombinant	>95%	Liquid
Influenza A [A/Victoria/2570/2019 (H1N1)] HA	HEK293 Recombinant	>95%	Liquid
Influenza A [A/Victoria/2570/2019 (H1N1)] NA	HEK293 Recombinant	>95%	Liquid
Influenza B [B/Austria/1359417/2021 (Victoria-Like)] HA	HEK293 Recombinant	>95%	Liquid
Influenza B [B/Austria/1359417/2021 (Victoria-Like)] NA	HEK293 Recombinant	>95%	Liquid
Influenza B [B/Beijing/184/1993] Nucleoprotein	HEK293 Recombinant	>95%	Liquid
Influenza B [B/Massachusetts/2/2012] Lysate	Native	Cell Lysate	Liquid
Influenza B [B/Palermo/4/2013] HA	HEK293 Recombinant	>95%	Liquid
Influenza B [B/Phuket/3073/2013 (Yamagata)] HA	HEK293 Recombinant	>90%	Liquid
Influenza B [B/Phuket/3073/2013 (Yamagata)] NA	HEK293 Recombinant	>90%	Liquid

Antigen	Source	Purity	Presentation
Influenza B [B/Victoria/35/2013] NA	HEK293 Recombinant	>95%	Liquid
Influenza B [B/Washington/02/2019 (Victoria)] NA	HEK293 Recombinant	>95%	Liquid
Influenza B [B/Washington/02/2019] HA	HEK293 Recombinant	>95%	Liquid
Influenza B [B/Washington/02/2019] NA	HEK293 Recombinant	>95%	Liquid
Japanese Encephalitis Virus Envelope Protein	HEK293 Recombinant	>95%	Liquid
Japanese Encephalitis Virus NS1 Protein	HEK293 Recombinant	>95%	Liquid
Japanese Encephalitis Virus VLP	HEK293 Recombinant	>90%	Liquid
Lassa Fever Virus GP1 Protein	HEK293 Recombinant	>95%	Liquid
Lassa Fever Virus GP2 Protein	HEK293 Recombinant	>95%	Liquid
Lassa Fever Virus Nucleoprotein (NP)	<i>E. coli</i> Recombinant	>90%	Liquid
<i>Legionella pneumophila</i> Antigen	Native	N/A	Liquid
<i>Leptospira biflexa</i> Antigen (Strain Patoc 1)	Native	N/A	Liquid
Marburg Virus Envelope Glycoprotein (GP)	HEK293 Recombinant	>90%	Liquid
Mayaro Virus E2 Envelope Protein	HEK293 Recombinant	>90%	Liquid
Mayaro Virus Lysate	Native	N/A	Liquid
Mayaro Virus VLP	HEK293 Recombinant	>90%	Liquid
Measles Virus Lysate	Native	N/A	Liquid
Measles Virus Nucleoprotein	HEK293 Recombinant	N/A	Liquid
MERS Coronavirus Spike Glycoprotein (S1), Camel Fc-Tag	HEK293 Recombinant	N/A	Liquid
MERS Coronavirus Spike Glycoprotein (S1)	Insect Cell Recombinant	N/A	Liquid
MERS Coronavirus Spike Glycoprotein (S1)	<i>E. coli</i> Recombinant	>95%	Liquid
Mumps Virus Lysate (Isolate 1)	Native	N/A	Liquid
Mumps Virus Nucleoprotein (Strain Jeryl-Lynn)	HEK293 Recombinant	N/A	Liquid
Mumps Virus Nucleoprotein (Strain L-Zagreb)	HEK293 Recombinant	N/A	Liquid
<i>Mycoplasma pneumoniae</i> Antigen	Native	95%	Liquid
Nairobi Sheep Disease Virus Glycoprotein (Gc)	HEK293 Recombinant	>95%	Liquid
Nairobi Sheep Disease Virus Glycoprotein (Gn)	HEK293 Recombinant	>90%	Liquid
<i>Neisseria gonorrhoeae</i> Antigen	Native	Bacterial	Liquid
Nipah Virus Glycoprotein F	HEK293 Recombinant	>90%	Liquid
Nipah Virus Glycoprotein G	HEK293 Recombinant	>90%	Liquid
Nipah Virus Nucleoprotein (N)	HEK293 Recombinant	>90%	Liquid
Norovirus GI.1 VLP	Insect Cell Recombinant	>90%	Liquid
Norovirus GI.3 VLP	HEK293 Recombinant	>95%	Liquid
Norovirus GII.2 VLP	HEK293 Recombinant	>95%	Liquid
Norovirus GII.4 VLP	HEK293 Recombinant	>95%	Liquid
Norovirus GII.6 VLP	HEK293 Recombinant	>95%	Liquid

Antigen	Source	Purity	Presentation
Norovirus GII.10 VLP	HEK293 Recombinant	>95%	Liquid
Norovirus GII.17 VLP	HEK293 Recombinant	>95%	Liquid
Norovirus GIX.1 VLP	HEK293 Recombinant	>95%	Liquid
O'nyong'nyong Virus VLP	HEK293 Recombinant	>90%	Liquid
Oropouche Virus Gc Protein	HEK293 Recombinant	>70%	Liquid
Oropouche Virus Gc Protein	HEK293 Recombinant	>60%	Liquid
Oropouche Virus Gn Protein	HEK293 Recombinant	>90%	Liquid
Oropouche Virus Gn Protein	HEK293 Recombinant	>90%	Liquid
Oropouche Virus Nucleoprotein	<i>E. coli</i> Recombinant	>95%	Liquid
Pan- <i>Plasmodium</i> Aldolase Protein	<i>E. coli</i> Recombinant	>95%	Liquid
Parvovirus VP2	HEK293 Recombinant	>95%	Liquid
<i>Pasteurella multocida</i> Toxin	<i>E. coli</i> Recombinant	>90%	Liquid
<i>Plasmodium falciparum</i> HRP-II Protein	<i>E. coli</i> Recombinant	>95%	Liquid
<i>Plasmodium falciparum</i> LDH Protein	<i>E. coli</i> Recombinant	>95%	Liquid
<i>Plasmodium falciparum</i> MSP1	<i>E. coli</i> Recombinant	>90%	Liquid
<i>Plasmodium vivax</i> LDH Protein	<i>E. coli</i> Recombinant	>95%	Liquid
<i>Plasmodium vivax</i> MSP1	<i>E. coli</i> Recombinant	>95%	Liquid
Porcine Circovirus 2 Capsid Protein	<i>E. coli</i> Recombinant	>90%	Liquid
Porcine Epidemic Diarrhea Virus Nucleoprotein	Insect Cell Recombinant	N/A	Liquid
Porcine Parvovirus 2 Capsid Protein 1	Insect cell recombinant	N/A	Liquid
Powassan Virus NS1 Protein	HEK293 Recombinant	>95%	Liquid
Puumala Virus Glycoprotein 1 (Gn)	HEK293 Recombinant	>90%	Liquid
Puumala Virus Glycoprotein 2 (Gc)	HEK293 Recombinant	>90%	Liquid
RSV A Glycoprotein G	HEK293 Recombinant	>90%	Lyophilised
RSV A Glycoprotein G	HEK293 Recombinant	>95%	Liquid
Respiratory Syncytial Virus A Lysate	Native	N/A	Liquid
Respiratory Syncytial Virus B Lysate	Native	N/A	Liquid
Respiratory Syncytial Virus Fusion Protein Exodomain	HEK293 Recombinant	>95%	Liquid
Rhinovirus Type 1A Lysate	Native	N/A	Liquid
Rift Valley Fever Virus Nucleoprotein	HEK293 Recombinant	>95%	Liquid
Ross River Virus VLP	HEK293 Recombinant	>85%	Liquid
Rotavirus Lysate	Native	N/A	Liquid
Rotavirus VP7	HEK293 Recombinant	>90%	Liquid
Rubella Spike Glycoprotein E1 (F-Therien)	HEK293 Recombinant	>95%	Liquid
Rubella Virus Lysate	Native	N/A	Liquid
Rubella Virus Nucleoprotein (F-Therien)	HEK293 Recombinant	>95%	Liquid

Antigen	Source	Purity	Presentation
Rubella Virus VLP (F-Therien)	HEK293 Recombinant	>95%	Liquid
Saint Louis Encephalitis Virus NS1 Protein	HEK293 Recombinant	>95%	Liquid
<i>Salmonella typhi</i> Hemolysin E (HlyE) Protein	<i>E. coli</i> Recombinant	>95%	Liquid
<i>Salmonella typhi</i> Outer Membrane Protein (OMP)	<i>E. coli</i> Recombinant	>95%	Liquid
SARS-CoV Envelope Protein	<i>E. coli</i> Recombinant	>90%	Liquid
SARS-CoV Membrane Protein (Matrix)	<i>E. coli</i> Recombinant	>90%	Liquid
SARS-CoV Nucleoprotein (NP)	HEK293 Recombinant	>85%	Liquid
SARS-CoV Nucleoprotein (C-Term)	<i>E. coli</i> Recombinant	>95%	Liquid
SARS-CoV Nucleoprotein (N-Term)	<i>E. coli</i> Recombinant	>90%	Liquid
SARS-CoV Nucleoprotein (N-Term, Mid)	<i>E. coli</i> Recombinant	>95%	Liquid
SARS-CoV Spike (S1)	<i>E. coli</i> Recombinant	>95%	Liquid
SARS-CoV Spike (S1) Mosaic (C-Term)	<i>E. coli</i> Recombinant	>90%	Liquid
SARS-CoV Spike (S1) Mosaic (N-Term)	<i>E. coli</i> Recombinant	>90%	Liquid
SARS-CoV-2 3C-Like Proteinase (3CLpro), Active	HEK293 Recombinant	>90%	Liquid
SARS-CoV-2 Membrane-Envelope Fusion Protein	<i>E. coli</i> Recombinant	>90%	Liquid
SARS-CoV-2 NSP1	<i>E. coli</i> Recombinant	>90%	Liquid
SARS-CoV-2 NSP7	<i>E. coli</i> Recombinant	>90%	Liquid
SARS-CoV-2 NSP8	<i>E. coli</i> Recombinant	>90%	Liquid
SARS-CoV-2 NSP10/16 Methyltransferase, Active	<i>E. coli</i> Recombinant	>90%	Liquid
SARS-CoV-2 NSP14 Methyltransferase, Active	<i>E. coli</i> Recombinant	>80%	Liquid
SARS-CoV-2 Nucleoprotein	<i>E. coli</i> Recombinant	>95%	Liquid
SARS-CoV-2 Nucleoprotein	HEK293 Recombinant	>90%	Liquid
SARS-CoV-2 Nucleoprotein (C-Term)	<i>E. coli</i> Recombinant	>90%	Liquid
SARS-CoV-2 Nucleoprotein:Biotin	<i>E. coli</i> Recombinant	>95%	Liquid
SARS-CoV-2 Nucleoprotein:HRP	<i>E. coli</i> Recombinant	>95%	Liquid
SARS-CoV-2 Papain-Like Protease (PLpro), Active	HEK293 Recombinant	>90%	Liquid
SARS-CoV-2 Purified Viral Lysate	Native	N/A	Liquid
SARS-CoV-2 RBD-Nucleoprotein Chimera	CHO Recombinant	>95%	Liquid
SARS-CoV-2 RNA-Dependent RNA Polymerase (RdRp),	HEK293 Recombinant	>90%	Liquid
SARS-CoV-2 Spike Glycoprotein (Full-Length)	CHO Recombinant	>90%	Liquid
SARS-CoV-2 Spike Glycoprotein:HRP (Full-Length)	CHO Recombinant	>90%	Liquid
SARS-CoV-2 Spike Glycoprotein:HRP (Full-Length)	HEK293 Recombinant	>90%	Liquid
SARS-CoV-2 Spike Glycoprotein (Trimeric)	CHO Recombinant	>90%	Liquid
SARS-CoV-2 Spike Glycoprotein (S1)	HEK293 Recombinant	N/A	Liquid
SARS-CoV-2 Spike Glycoprotein (S1)	Insect Cell Recombinant	N/A	Liquid
SARS-CoV-2 Spike Glycoprotein RBD	HEK293 Recombinant	>95%	Liquid

Antigen	Source	Purity	Presentation
SARS-CoV-2 Spike Glycoprotein RBD	<i>E. coli</i> Recombinant	>90%	Liquid
SARS-CoV-2 Spike Glycoprotein RBD	CHO Recombinant	≥90%	Liquid
SARS-CoV-2 Spike Glycoprotein (S2)	HEK293 Recombinant	70%	Liquid
SARS-CoV-2 Spike Glycoprotein (S2)	Insect Cell Recombinant	70%	Liquid
SARS-CoV-2 Spike Glycoprotein (S2) (aa 1000-1200)	<i>E. coli</i> Recombinant	>90%	Liquid
SARS-CoV-2 Spike Glycoprotein (S2) (aa 800-1000)	<i>E. coli</i> Recombinant	>90%	Liquid
SARS-CoV-2 Spike N-Terminal Domain (NTD)	HEK293 Recombinant	>95%	Liquid
SARS-CoV-2 Spike-E-M Mosaic Protein	<i>E. coli</i> Recombinant	>90%	Liquid
SARS-CoV-2 (501.V2) Spike Glycoprotein (Full-Length)	HEK293 Recombinant	>90%	Liquid
SARS-CoV-2 (501.V2) Spike Glycoprotein RBD	HEK293 Recombinant	>90%	Liquid
SARS-CoV-2 (501.V2) Stabilized Spike Glycoprotein	HEK293 Recombinant	>90%	Liquid
SARS-CoV-2 (A222V) Spike Glycoprotein (S1)	HEK293 Recombinant	>95%	Liquid
SARS-CoV-2 (B.1.1.7) Spike Glycoprotein (Full-Length)	HEK293 Recombinant	>95%	Liquid
SARS-CoV-2 (B.1.1.7) Stabilized Spike Glycoprotein	HEK293 Recombinant	>95%	Liquid
SARS-CoV-2 (B.1.1.28) Stabilized Spike Glycoprotein	HEK293 Recombinant	>95%	Liquid
SARS-CoV-2 (B.1.1.28: K417T, E484K, N501Y) Spike RBD	HEK293 Recombinant	>95%	Liquid
SARS-CoV-2 (B.1.351) Stabilized Spike Glycoprotein	HEK293 Recombinant	>95%	Liquid
SARS-CoV-2 (B.1.1.529) Stabilized Spike Glycoprotein	HEK293 Recombinant	>95%	Liquid
SARS-CoV-2 (B.1.1.529) Spike RBD	HEK293 Recombinant	>95%	Liquid
SARS-CoV-2 (B.1.1.529) Spike S1	HEK293 Recombinant	>95%	Liquid
SARS-CoV-2 (B.1.617.1: E484Q, L452R) Spike RBD	HEK293 Recombinant	>95%	Liquid
SARS-CoV-2 (B.1.617.1: L452R, T478K) Spike RBD	HEK293 Recombinant	>95%	Liquid
SARS-CoV-2 (B.1.617.2) Spike RBD	HEK293 Recombinant	>95%	Liquid
SARS-CoV-2 (B.1.617.2; AY.1, AY.2, AY.3) Stabilized Spike	HEK293 Recombinant	>95%	Liquid
SARS-CoV-2 (D614G) Spike Glycoprotein (S1)	HEK293 Recombinant	>95%	Liquid
SARS-CoV-2 (D614G) Spike Glycoprotein (Trimer)	HEK293 Recombinant	>95%	Liquid
SARS-CoV-2 (D614G, E484K) Spike Glycoprotein (S1)	HEK293 Recombinant	>95%	Liquid
SARS-CoV-2 (D614G, G485R) Spike Glycoprotein (S1)	HEK293 Recombinant	>95%	Liquid
SARS-CoV-2 (D614G, L84I, N439K) Spike (S1)	HEK293 Recombinant	>95%	Liquid
SARS-CoV-2 (D614G, N501Y) Spike (S1)	HEK293 Recombinant	>95%	Liquid
SARS-CoV-2 (D614G, S477N) Spike (S1)	HEK293 Recombinant	>95%	Liquid
SARS-CoV-2 (D614G, V445I, H655Y, E583D) Spike (S1)	HEK293 Recombinant	>95%	Liquid
SARS-CoV-2 (N439K) Spike Glycoprotein (S1)	HEK293 Recombinant	>95%	Liquid
SARS-CoV-2 (N501Y) Spike Glycoprotein (S1)	HEK293 Recombinant	>95%	Liquid
SARS-CoV-2 (Y453F) Spike Glycoprotein (S1)	HEK293 Recombinant	>95%	Liquid
SFTSV Nucleoprotein	HEK293 Recombinant	>95%	Liquid

Antigen	Source	Purity	Presentation
Streptavidin-AP	<i>E. coli</i> Recombinant	N/A	Liquid
Streptavidin-FITC	<i>E. coli</i> Recombinant	N/A	Liquid
Streptavidin-HRP	<i>E. coli</i> Recombinant	N/A	Liquid
<i>Streptococcus pneumoniae</i> Antigen	Native	N/A	Liquid
Tetanus Toxoid, Heavy Chain Fragment C	<i>E. coli</i> Recombinant	>98%	Lyophilised
TBEV Envelope Protein	HEK293 Recombinant	>90%	Liquid
TBEV Lysate (Strain Moscow B-4)	Cell Lysate	N/A	Liquid
TBEV NS1 Protein	HEK293 Recombinant	>90%	Liquid
Toscana Virus Glycoprotein 2 (Gc)	HEK293 Recombinant	>90%	Liquid
<i>Toxocara canis</i> Antigen	Native	N/A	Liquid
<i>Toxoplasma gondii</i> GRA7 Protein	<i>E. coli</i> Recombinant	>95%	Liquid
<i>Toxoplasma gondii</i> IgG antigen, RH strain	Native	N/A	Liquid
<i>Toxoplasma gondii</i> ROP1 Protein	<i>E. coli</i> Recombinant	>95%	Liquid
<i>Toxoplasma gondii</i> SAG2 Protein	<i>E. coli</i> Recombinant	>95%	Liquid
Usutu Virus NS1 Protein	<i>E. coli</i> Recombinant	>95%	Liquid
Vaccinia Virus B18R	HEK293 Recombinant	>95%	Lyophilised
Varicella-Zoster Virus gE/gI Heterodimer	HEK293 Recombinant	>95%	Liquid
Wesselsbron Virus NS1 Protein	<i>E. coli</i> Recombinant	>90%	Liquid
West Nile Virus Envelope Protein	<i>E. coli</i> Recombinant	>95%	Liquid
West Nile Virus Lysate	Native	N/A	Liquid
West Nile Virus NS1 Protein	HEK293 Recombinant	>95%	Liquid
Yellow Fever Virus Envelope Protein	HEK293 Recombinant	>90%	Liquid
Yellow Fever Virus Envelope Protein	Insect Cell Recombinant	N/A	Liquid
Yellow Fever Virus Lysate (17D strain)	Native	N/A	Liquid
Yellow Fever Virus Lysate (Asibi strain)	Native	N/A	Liquid
Yellow Fever Virus NS1	HEK293 Recombinant	>95%	Liquid
Zika Virus DIII Envelope Protein (Asian strain)	<i>E. coli</i> Recombinant	>95%	Liquid
Zika Virus Envelope Protein (Suriname strain)	HEK293 Recombinant	>95%	Liquid
Zika Virus Lysate	Native	N/A	Liquid
Zika Virus Lysate (DakArD 41662 strain)	Native	N/A	Liquid
Zika Virus Lysate (MR766 strain)	Native	N/A	Liquid
Zika Virus Lysate (PRVABC59 strain)	Native	N/A	Liquid
Zika Virus NS1 Protein (Suriname strain)	HEK293 Recombinant	>85%	Liquid
Zika Virus NS1 Protein (Uganda strain)	HEK293 Recombinant	>85%	Liquid
Zika Virus Lysate	Native	N/A	Liquid
Zika Virus VLP	HEK293 Recombinant	>95%	Liquid

Antibodies

We are developing the world's most extensive range of antibodies for infectious disease targets. Our portfolio includes a range of coronavirus antibodies, as well as a panel of highly specific antibodies for flavivirus NS1 proteins, such as serotype-specific reagents for Dengue and human chimeric Zika NS1 monoclonals.

Antibody Target	Clonality	Purity	Presentation
Adenovirus Hexon Protein	Mouse Monoclonal	>95%	Liquid
Astrovirus	Mouse Monoclonal	>95%	Liquid
<i>Borrelia burgdorferi</i> CRASP-1	Rabbit Polyclonal	>95%	Liquid
<i>Borrelia burgdorferi</i> CRASP-2	Rabbit Polyclonal	>95%	Liquid
<i>Borrelia burgdorferi</i> DbpA	Rabbit Polyclonal	>95%	Liquid
<i>Borrelia burgdorferi</i> DbpB	Rabbit Polyclonal	>95%	Liquid
<i>Borrelia burgdorferi</i> Erpd/Arp37	Rabbit Polyclonal	>95%	Liquid
<i>Borrelia burgdorferi</i> ErpN/OspE	Rabbit Polyclonal	>95%	Liquid
<i>Borrelia burgdorferi</i> Flagellin	Rabbit Polyclonal	>95%	Liquid
<i>Borrelia burgdorferi garinii</i>	Mouse Monoclonal	>95%	Liquid
<i>Borrelia burgdorferi</i> OspA	Rabbit Polyclonal	>95%	Liquid
<i>Borrelia burgdorferi</i> OspB	Rabbit Polyclonal	>95%	Liquid
<i>Borrelia burgdorferi</i> OspC	Rabbit Polyclonal	>95%	Liquid
<i>Borrelia burgdorferi</i> P35	Rabbit Polyclonal	>95%	Liquid
<i>Borrelia burgdorferi</i> P39	Rabbit Polyclonal	>95%	Liquid
<i>Borrelia burgdorferi</i> Surface Lipoprotein P27	Rabbit Polyclonal	>95%	Liquid
<i>Borrelia burgdorferi</i> VlsE	Rabbit Polyclonal	>95%	Liquid
<i>Borrelia burgdorferi</i> Whole Cell Lysate	Rabbit Polyclonal	>95%	Liquid
<i>Borrelia sensu stricto</i> Flagellin	Rabbit Polyclonal	>95%	Liquid
Bovine Coronavirus Spike Glycoprotein	Mouse Monoclonal	N/A	Liquid
<i>Burkholderia mallei</i> (Sap1-43)	Mouse Monoclonal	N/A	Liquid
<i>Burkholderia mallei</i> LPS (3D11)	Mouse Monoclonal	N/A	Liquid
<i>Campylobacter jejuni</i>	Mouse Monoclonal	>95%	Liquid
Canine Coronavirus Nucleoprotein	Mouse Monoclonal	N/A	Liquid
Canine Distemper Virus Surface Envelope (5-4)	Mouse Monoclonal	N/A	Liquid
Canine Distemper Virus Surface Envelope (8-1)	Mouse Monoclonal	N/A	Liquid
Canine Heartworm	Mouse Monoclonal	>90%	Liquid
Canine Parvovirus 2	Mouse Monoclonal	N/A	Liquid
Chikungunya Virus	Sheep Polyclonal	>90%	Liquid
Chikungunya Virus	Mouse Monoclonal	>95%	Liquid
Chikungunya Virus Capsid Protein	Mouse Monoclonal	>95%	Liquid

Antibody Target	Clonality	Purity	Presentation
Chikungunya Virus E2 Protein	Mouse Monoclonal	>95%	Liquid
Chikungunya Virus VLP	Mouse Monoclonal	>95%	Liquid
<i>Chlamydia trachomatis</i> LPS	Mouse Monoclonal	>95%	Liquid
<i>Chlamydia trachomatis</i> MOMP	Mouse Monoclonal	>95%	Liquid
Cholera Toxin Beta Subunit	Mouse Monoclonal	>95%	Liquid
<i>Clostridium difficile</i> GDH	Mouse Monoclonal	>95%	Liquid
<i>Clostridium difficile</i> Toxin B	Mouse Monoclonal	>95%	Liquid
CMV Glycoprotein B	Mouse Monoclonal	>95%	Liquid
CMV Glycoprotein H	Mouse Monoclonal	>90%	Liquid
CMV ICP36 Antigen	Mouse Monoclonal	>90%	Liquid
CMV Pentamer Protein	Sheep Polyclonal	>90%	Liquid
CMV Phosphoprotein 28	Mouse Monoclonal	>90%	Liquid
CMV Phosphoprotein 65	Mouse Monoclonal	>90%	Liquid
Coxsackievirus B3 Antibody	Mouse Monoclonal	>90%	Liquid
CCHFV Gn Protein	Mouse Monoclonal	>95%	Liquid
CCHFV Nucleoprotein	Mouse Monoclonal	>95%	Liquid
<i>Cryptosporidium</i>	Mouse Monoclonal	>95%	Liquid
<i>Cryptosporidium</i>	Rabbit Polyclonal	>95%	Liquid
Dengue Virus Envelope Protein (Pan-Serotype)	Mouse Monoclonal	>95%	Liquid
Dengue Virus Envelope Protein (Serotype 1)	Mouse Monoclonal	>95%	Liquid
Dengue Virus Envelope Protein (Serotypes 1-3)	Mouse Monoclonal	>95%	Liquid
Dengue Virus Membrane Protein (Serotype 4)	Mouse Monoclonal	>95%	Liquid
Dengue Virus NS1 (Pan-Serotype)	Mouse Monoclonal	>95%	Liquid
Dengue Virus NS1 (Serotypes 1-2)	Mouse Monoclonal	>95%	Liquid
Dengue Virus NS1 (Serotypes 1-3)	Mouse Monoclonal	>95%	Liquid
Dengue Virus NS1 (Serotype 1)	Human Monoclonal	>95%	Liquid
Dengue Virus NS1 (Serotype 1)	Mouse Monoclonal	>95%	Liquid
Dengue Virus NS1 (Serotype 2)	Mouse Monoclonal	>95%	Liquid
Dengue Virus NS1 (Serotype 3)	Mouse Monoclonal	>95%	Liquid
Dengue Virus NS1 (Serotype 4)	Mouse Monoclonal	>95%	Liquid
Dengue Virus prM Protein (Serotypes 1-4)	Mouse Monoclonal	>95%	Liquid
Dengue Virus Serotype 2	Mouse Monoclonal	>95%	Liquid
Diphtheria Toxin	Mouse Monoclonal	>90%	Liquid
Diphtheria Toxin A	Mouse Monoclonal	>90%	Liquid
Ebola Virus	Sheep Polyclonal	>90%	Liquid
Ebola Virus Envelope Glycoprotein (Zaire)	Mouse Monoclonal	>90%	Liquid

Antibody Target	Clonality	Purity	Presentation
Ebola Virus Nucleoprotein	Mouse Monoclonal	>90%	Liquid
Ebola Virus VP40	Mouse Monoclonal	>90%	Liquid
Enterovirus 70	Mouse Monoclonal	>90%	Liquid
Enterovirus 71 VP1	Mouse Monoclonal	>90%	Liquid
Enterovirus Pan VP3	Mouse Monoclonal	>90%	Liquid
<i>E. coli</i> O157	Mouse Monoclonal	>90%	Liquid
Feline Leukemia Virus P27	Mouse Monoclonal	>90%	Liquid
Flavivirus Envelope Protein (4G2)	Human Monoclonal	>95%	Liquid
Flavivirus Envelope Protein (4G2)	Mouse Monoclonal	>95%	Liquid
Flavivirus Envelope Protein (4G2)	Rabbit Monoclonal	>95%	Liquid
<i>Giardia lamblia</i> Trophozoite	Mouse Monoclonal	>95%	Liquid
Hantavirus Nucleocapsid Protein	Mouse Monoclonal	>90%	Liquid
HCoV-229E Spike (S1)	Rabbit Polyclonal	>95%	Liquid
HCoV-HKU1 Spike (S1)	Rabbit Polyclonal	>95%	Liquid
HCoV-NL63 Spike (S1)	Rabbit Polyclonal	>95%	Liquid
HCoV-OC43 Spike (S1)	Rabbit Polyclonal	>95%	Liquid
Hepatitis A Virus	Mouse Monoclonal	>90%	Liquid
Hepatitis A Virus VP3	Mouse Monoclonal	>90%	Liquid
Hepatitis B Virus Core Protein	Mouse Monoclonal	>90%	Liquid
Hepatitis B Virus E Antigen	Mouse Monoclonal	>90%	Liquid
Hepatitis B Virus Pre-S Region	Mouse Monoclonal	>90%	Liquid
Hepatitis B Virus Surface Antigen	Mouse Monoclonal	>90%	Liquid
Hepatitis B Virus X Protein	Mouse Monoclonal	>90%	Liquid
Hepatitis C Virus Core Protein	Mouse Monoclonal	>90%	Liquid
Hepatitis C Virus Core Protein (29-39aa)	Mouse Monoclonal	>90%	Liquid
Hepatitis C Virus Core Protein (33-38aa)	Mouse Monoclonal	>90%	Liquid
Hepatitis C Virus E1	Mouse Monoclonal	>90%	Liquid
Hepatitis C Virus E2	Mouse Monoclonal	>90%	Liquid
Hepatitis C Virus NS3	Mouse Monoclonal	>90%	Liquid
Hepatitis C Virus NS3 (1252-1477aa)	Mouse Monoclonal	>90%	Liquid
Hepatitis C Virus NS3 Helicase	Mouse Monoclonal	>90%	Liquid
Hepatitis C Virus NS4A (1700-1710aa)	Mouse Monoclonal	>90%	Liquid
Hepatitis C Virus NS4B (1689-1735aa)	Mouse Monoclonal	>90%	Liquid
Hepatitis C Virus NS4B (1710-1730aa)	Mouse Monoclonal	>90%	Liquid
Hepatitis C Virus NS4A/B (1658-1863aa)	Mouse Monoclonal	>90%	Liquid
Hepatitis C Virus NS5A	Mouse Monoclonal	>90%	Liquid

Antibody Target	Clonality	Purity	Presentation
Hepatitis C Virus NS5B	Mouse Monoclonal	>90%	Liquid
Hepatitis E Virus Capsid (ORF2)	Mouse Monoclonal	>90%	Liquid
Herpes Simplex Virus Glycoprotein D	Mouse Monoclonal	>95%	Liquid
Herpes Simplex Virus 2 Glycoprotein D	Mouse Monoclonal	>95%	Liquid
Herpes Simplex Virus Type 2	Mouse Monoclonal	>95%	Liquid
HIV-1 gp41	Mouse Monoclonal	>95%	Liquid
HIV-1 gp120	Mouse Monoclonal	>95%	Liquid
HIV-1 Integrase	Mouse Monoclonal	N/A	Liquid
HIV-1 p17	Mouse Monoclonal	>95%	Liquid
HIV-1 p24	Mouse Monoclonal	>95%	Liquid
HIV-1 Tat	Rabbit Polyclonal	N/A	Liquid
Human Metapneumovirus	Mouse Monoclonal	>95%	Liquid
Human Papilloma Virus L1	Mouse Monoclonal	>95%	Liquid
Human Papilloma Virus Type 11	Mouse Monoclonal	>95%	Liquid
Human Papilloma Virus Type 16	Mouse Monoclonal	>95%	Liquid
Human Papilloma Virus Type 16/18	Mouse Monoclonal	>95%	Liquid
Human Papilloma Virus Type 18	Mouse Monoclonal	>95%	Liquid
Influenza A	Mouse Monoclonal	>95%	Liquid
Influenza B	Mouse Monoclonal	>95%	Liquid
Influenza A NP	Mouse Monoclonal	>95%	Liquid
Influenza B NP	Mouse Monoclonal	>95%	Liquid
Japanese Encephalitis Virus NS1	Mouse Monoclonal	>95%	Liquid
Lassa Fever Virus GP1	Mouse Monoclonal	N/A	Liquid
Lassa Fever Virus GP2	Mouse Monoclonal	N/A	Liquid
<i>Legionella pneumophila</i>	Mouse Monoclonal	>95%	Liquid
<i>Legionella pneumophila</i> LPS	Mouse Monoclonal	>90%	Liquid
<i>Leptospira</i>	Rabbit Polyclonal	>95%	Liquid
<i>Listeria monocytogenes</i>	Mouse Monoclonal	>95%	Liquid
Marburg Virus VP40	Mouse Monoclonal	>90%	Liquid
Mayaro Virus E1	Mouse Monoclonal	>95%	Liquid
Mayaro Virus E2	Mouse Monoclonal	>90%	Liquid
Measles Virus	Mouse Monoclonal	N/A	Liquid
MERS Coronavirus Spike Protein (S1)	Mouse Monoclonal	N/A	Liquid
Mumps Virus Nucleoprotein	Mouse Monoclonal	>90%	Liquid
<i>Mycoplasma pneumoniae</i> P1	Mouse Monoclonal	>95%	Liquid
Nipah Virus Glycoprotein F	Mouse Monoclonal	>95%	Liquid

Antibody Target	Clonality	Purity	Presentation
Nipah Virus Glycoprotein G	Mouse Monoclonal	>95%	Liquid
Norovirus GI	Mouse Monoclonal	>95%	Liquid
Norovirus GII	Mouse Monoclonal	>95%	Liquid
Pan-Norovirus	Goat Polyclonal	>95%	Liquid
Norovirus GI	Mouse Monoclonal	>95%	Liquid
Norovirus GII	Mouse Monoclonal	>95%	Liquid
O'nyong'nyong Virus VLP	Mouse Monoclonal	N/A	Liquid
<i>Pasteurella multocida</i> Toxin	Rabbit Polyclonal	N/A	Liquid
<i>Plasmodium</i> Pan-LDH	Mouse Monoclonal	>95%	Liquid
<i>Plasmodium falciparum</i> HRP-2	Mouse Monoclonal	>95%	Liquid
<i>Plasmodium falciparum</i> MSP1	Mouse Monoclonal	N/A	Liquid
<i>Plasmodium vivax</i> CSP	Mouse Monoclonal	N/A	Liquid
<i>Plasmodium vivax</i> LDH	Mouse Monoclonal	>95%	Liquid
<i>Plasmodium vivax</i> MSP1	Mouse Monoclonal	N/A	Liquid
<i>Plasmodium</i> (Pan-Strain)	Mouse Monoclonal	>95%	Liquid
Poliovirus	Goat Polyclonal	>95%	Liquid
Porcine Coronavirus Spike	Mouse Monoclonal	N/A	Liquid
Powassan Virus NS1	Mouse Monoclonal	>95%	Liquid
RSV	Mouse Monoclonal	>95%	Liquid
Rhinovirus VP3	Mouse Monoclonal	>95%	Liquid
Rift Valley Fever Virus Nucleoprotein	Mouse Monoclonal	>95%	Liquid
Ross River Virus E2 Glycoprotein	Mouse Monoclonal	N/A	Liquid
Rotavirus VP6	Mouse Monoclonal	>95%	Liquid
Rubella Virus Glycoprotein E1	Mouse Monoclonal	>90%	Liquid
Rubella Virus Glycoprotein E2	Mouse Monoclonal	>90%	Liquid
<i>Salmonella paratyphi</i>	Mouse Monoclonal	>95%	Liquid
<i>Salmonella typhi</i>	Mouse Monoclonal	>95%	Liquid
SARS-CoV E2 Glycoprotein	Mouse Monoclonal	>90%	Liquid
SARS-CoV Membrane	Mouse Monoclonal	>90%	Liquid
SARS-CoV Nucleoprotein	Mouse Monoclonal	N/A	Liquid
SARS-CoV Nucleoprotein:HRP	Mouse Monoclonal	N/A	Liquid
SARS-CoV Nucleoprotein:Biotin	Mouse Monoclonal	N/A	Liquid
SARS-CoV Nucleoprotein	Rabbit Polyclonal	N/A	Liquid
SARS-CoV-2 Nucleoprotein (IgG)	Rabbit Monoclonal	N/A	Liquid
SARS-CoV-2 Nucleoprotein (IgM)	Human Monoclonal	N/A	Liquid
SARS-CoV-2 Nucleoprotein	Rabbit Polyclonal	N/A	Liquid

Antibody Target	Clonality	Purity	Presentation
SARS-CoV-2 Spike	Human Monoclonal (IgA)	>95%	Liquid
SARS-CoV-2 Spike	Llama VHH Nanobody	>95%	Liquid
SARS-CoV-2 Spike (S1)	Mouse Monoclonal	>95%	Liquid
SARS-CoV-2 Spike (S1):HRP	Mouse Monoclonal	>95%	Liquid
SARS-CoV-2 Spike (S1) (IgG)	Rabbit Polyclonal	>95%	Liquid
SARS-CoV-2 Spike (S1)	Humanised Recombinant	>95%	Liquid
SARS-CoV-2 Spike (S1) RBD	Rabbit Polyclonal	>95%	Liquid
SARS-CoV-2 Spike (S1) RBD	Mouse Monoclonal	>95%	Liquid
SARS-CoV-2 Spike (S1) RBD	Humanised Recombinant	>95%	Liquid
SARS-CoV-2 Spike (S1)	Human Monoclonal	>95%	Liquid
SARS-CoV-2 Spike (S1) NTD	Chimeric Human	>95%	Liquid
SARS-CoV-2 Spike (S2)	Mouse Monoclonal	>95%	Liquid
SARS-CoV-2 Spike (S2) (IgG)	Rabbit Polyclonal	>95%	Liquid
SARS-CoV-2 Spike (S2)	Humanised Recombinant	>95%	Liquid
SFTSV Nucleoprotein	Mouse Monoclonal	N/A	Liquid
<i>Staphylococcus aureus</i> Enterotoxin A	Mouse Monoclonal	>95%	Liquid
<i>Staphylococcus aureus</i> Enterotoxin B	Mouse Monoclonal	>95%	Liquid
<i>Staphylococcus aureus</i> Enterotoxin G	Mouse Monoclonal	>95%	Liquid
<i>Staphylococcus aureus</i> Enterotoxin I	Mouse Monoclonal	>95%	Liquid
Streptavidin:Alkaline Phosphatase	N/A	>95%	Liquid
Streptavidin:FITC	N/A	>95%	Liquid
Streptavidin:HRP	N/A	>95%	Liquid
<i>Streptococcus pneumoniae</i>	Mouse Monoclonal	>95%	Liquid
Tetanus Toxin	Mouse Monoclonal	>95%	Liquid
Tick-Borne Encephalitis Virus NS1	Mouse Monoclonal	>95%	Liquid
<i>Toxoplasma gondii</i> SAG-1	Mouse Monoclonal	>95%	Liquid
West Nile Virus Envelope Protein	Rabbit Polyclonal	>95%	Liquid
West Nile Virus NS1	Mouse Monoclonal	>95%	Liquid
Yellow Fever Virus NS1	Mouse Monoclonal	>95%	Liquid
Zika Virus NS1	Human Monoclonal	>95%	Liquid
Zika Virus NS1	Mouse Monoclonal	>95%	Liquid
Zika Virus NS1:Biotin	Mouse Monoclonal	>95%	Liquid
Zika Virus VLP	Mouse Monoclonal	>95%	Liquid

BacTrace® Antigens and Antibodies

BacTrace comprises KPL's range of native bacterial antigens and matching primary antibodies. Produced in an ISO13485-certified facility, BacTrace bacterial antigens are grown as whole cells in native culture. BacTrace antibodies are generated by inoculating goats with BacTrace bacterial antigens. The resulting polyclonal sera then undergoes a proprietary affinity purification protocol that preserves target antigen affinity while yielding fractions that are highly specific to the pathogen in question. Combined with downstream cross-reactivity testing, BacTrace antibodies benefit from maximal signal-to-noise ratio, while ensuring defined specificity and lot-to-lot consistency.

Pathogen	Antigen	Antibody
<i>Borrelia</i> species		Available
<i>Borrelia burgdorferi</i>	Available	Available
<i>Campylobacter</i> species		Available
<i>Campylobacter jejuni</i>	Available	
<i>Clavibacter michiganensis</i>		Available
<i>E. coli</i> O26	Available	Available
<i>E. coli</i> O45	Available	Available
<i>E. coli</i> O91	Available	Available
<i>E. coli</i> O103	Available	Available
<i>E. coli</i> O104	Available	Available
<i>E. coli</i> O111	Available	Available
<i>E. coli</i> O121	Available	Available
<i>E. coli</i> O145	Available	Available
<i>E. coli</i> O157:H7	Available	Available
<i>Helicobacter pylori</i>	Available	Available
<i>Legionella pneumophila</i>	Available	
<i>Listeria</i> species		Available
<i>Listeria monocytogenes</i>	Available	
<i>Renibacterium salmoninarum</i>	Available	Available
<i>Salmonella</i> species		Available
<i>Salmonella typhimurium</i>	Available	
<i>Shigella</i> species	Available	Available
<i>Staphylococcus aureus</i>	Available	Available
<i>Streptococcus pyogenes</i> (Group A)	Available	Available
<i>Streptococcus agalactiae</i> (Group B)	Available	Available
<i>Vibrio</i> species	Available	Available
<i>Vibrio cholerae</i>		Available
<i>Yersinia</i> species		Available
<i>Yersinia enterocolitica</i>	Available	

Virus Receptors

The Native Antigen Company is developing a range of virus receptors for use in studying the interaction of viruses with their target cells. These reagents may be used in the development on in vitro assays for investigating potential methods to block virus-to-cell binding.

Receptor	Source	Purity	Presentation
Human ACE2 (18-615)	HEK293 Recombinant	>98%	Liquid
Human ACE2 (18-615)	CHO Recombinant	>95%	Liquid
Human ACE2 (19-740)	CHO Recombinant	>95%	Liquid
Human AXL	HEK293 Recombinant	>95%	Liquid
Human CD147 (22-205)	CHO Recombinant	>90%	Liquid
Human CD147 (BSG)	HEK293 Recombinant	>90%	Liquid
Human CLEC4M (L-SIGN)	HEK293 Recombinant	>95%	Liquid
Human DAG	HEK293 Recombinant	>95%	Liquid
Human DC-SIGN	HEK293 Recombinant	>95%	Liquid
Human Ephrin-B2	HEK293 Recombinant	>95%	Liquid
Human Integrin Alpha-5 Beta-3	HEK293 Recombinant	>90%	Liquid
Human MOG	HEK293 Recombinant	>90%	Liquid
Human MXRA8 Protein	HEK293 Recombinant	>90%	Liquid
Human Neuropilin 2	HEK293 Recombinant	>95%	Liquid

Vaccine Sera

Sera	Presentation
Japanese Encephalitis Virus Pre-Vaccination Bleed	Liquid
Japanese Encephalitis Virus 3 Week (IgM) Bleed	Liquid
Japanese Encephalitis Virus 6 Month (IgM) Bleed	Liquid
Yellow Fever Virus Pre-Vaccination Bleed	Liquid
Yellow Fever Virus 2 Week (IgM) Vaccine Bleed	Liquid
Yellow Fever Virus 6 Week (IgG) Vaccine Bleed	Liquid
Yellow Fever Virus 6 Month (IgG) Vaccine Bleed	Liquid
Yellow Fever Virus 12 Month (IgG) Vaccine Bleed	Liquid
Yellow Fever Virus Vaccination Time Course Panel	Liquid

Immunoassays

Immunoassay	Format	Size
Zika Virus IgG/IgM/IgA ELISA	ELISA	96-Well

Molecular Controls

Bacteriophage MS2 is manufactured in *E. coli* to high quality and diluted in SM buffer at two different titers, 1E9 pfu/ml and 5E10 pfu/ml. This product can be used as an in process control in nucleic acid based assays.

Virus	Concentration (pfu/ml)	Presentation
Bacteriophage MS2	1E9	Liquid
Bacteriophage MS2	5E10	Liquid

Neutralisation Assay Development Kits

The Native Antigen Company provides a range of RBD-ACE2 neutralisation assay development kits for a range of SARS-CoV-2 variants. With all the key reagents required to measure Spike-antibody binding, these easy-to-use, cell-free kits can be used to identify and qualitatively assess the ability of antibodies to neutralise variant RBD-ACE2 interactions:

Variant	Size
Wild-Type (Wuhan-Hu-1)	10 x 96-well plates
Kerala (B.1.617.2)	10 x 96-well plates
Beta (B.1.351/501Y.V2)	10 x 96-well plates
Gamma (B.1.1.28)	10 x 96-well plates
Alpha (B.1.1.7)	10 x 96-well plates
Delta (B.1.617.2)	10 x 96-well plates
Omicron (B.1.1.529)	10 x 96-well plates

Metabolic Labelling Kits

The Native Antigen Company provides Legionella-specific and Gram-negative-specific click chemistry labelling kits for the visualisation of bacteria.

Kit	Volume
LegioTag	100µl
BacTag	100µl

Conjugation Kits

The Native Antigen Company provides a range of conjugation kits that utilize a novel chemistry to generate highly reproducible conjugates.

Kit	Volume
HRP-IgG Conjugation Kit	1-40µl
Biotin Labelling Kit	1-40µl
AP-IgG Conjugation Kit	1-40µl
FITC-IgG Conjugation Kit	1-40µl

Blocking Buffers

The Native Antigen Company provides blocking buffers for Western Blot and ELISA.

Buffer	Presentation
HiGlo Fluorescent Western Blocking Buffer	Liquid
PanBlock ELISA Blocking Buffer	Liquid



About The Native Antigen Company

The Native Antigen Company develops and manufactures premium quality antigens and antibodies as well as offering a range of services to the diagnostic and biopharmaceutical industries.

Our proprietary VirtuE™ expression system has been developed for the purpose of producing native-like proteins, which are widely adopted by leading in vitro diagnostic, vaccine and academic groups in cutting-edge R&D, where correct folding and glycosylation are vital. Our contract services range from antibody generation, to scale production of recombinant and native antigens, and bespoke assay development and QC.

Building on our recognised expertise in infectious diseases, we are expanding our portfolio to include a range of disease-state markers and other critical reagents for human health.

About LGC Clinical Diagnostics

LGC's Clinical Diagnostics Division develops and manufactures a comprehensive portfolio of catalogue and custom-developed diagnostic quality solutions and component materials for the extended life sciences industry. We partner with IVD assay developers, and pharmaceutical, CRO and academic institutions in commercialization activities across the entire diagnostic pipeline - from concept and early stage research, through expedited product development and onwards into routine clinical use. Laboratorians and diagnostic professionals across disciplines of clinical chemistry, immunochemistry, serology, molecular diagnostics and clinical genomics rely on LGC's products to support accurate and reliable diagnostic results.

Our operating entities include SeraCare Life Sciences and Maine Standards Company, which are in vitro diagnostics (IVD) manufacturers of quality measurement tools (calibrators, controls, linearity, EQA/Pt, biological materials). Our 300+ employees operate FDA-registered and ISO 13485-accredited facilities in Maine, Massachusetts and Maryland, USA, and an ISO 9001-accredited facility in Oxford, UK.

Each day, our world-class staff, scientific expertise, operational efficiency and superior quality systems are ready to support the range of advanced technologies that collectively improve patient outcomes - from the widely adopted and established through to cutting-edge NGS and precision diagnostics.