

OEM Products & Services



A Division of MorphoSys

An extensive line of products and services, plus the technical resources needed to support your projects from start to finish, make AbD Serotec the first choice for high-quality, cost-effective outsourcing options for all your OEM requirements.



AbD Serotec's OEM commitment is backed by proven ISO quality systems, more than 25 years of experience, and flexible manufacturing protocols.

An OEM Supplier You Can Rely On

AbD Serotec is the Research and Diagnostic antibody division of MorphoSys, one of the world's leading antibody technology companies.

The AbD Serotec brand was created in early 2006 to market the combined products and services of Antibodies by Design, Biogenesis, Oxford Biotechnology, and Serotec – more than 14,000 antibodies and immunological reagents, custom monoclonal antibodies developed from the MorphoSys HuCAL® library, and antibody production and conjugation services.



We are proud of our commitment to provide OEM customers with the highest quality products and services, and have recently opened an ISO certified production facility.

This 2200 square meter building is situated in Kidlington, near Oxford, UK and houses state-of-the-art production and R&D laboratories as well as sales and administration offices.

Custom monoclonal development services are performed at MorphoSys headquarters in Martinsried, near Munich in Germany.

The AbD Serotec headquarters also supports sales offices in Raleigh, North Carolina; Duesseldorf, Germany; and Munich, Germany.

OEM clients are encouraged to arrange a tour of the facility, which is currently ISO 9001:2008 and 13485:2003 accredited.



More Than 25 Years Experience



AbD Serotec offers more than 25 years experience in large scale antibody production and an expert team of OEM specialists located around the world.

This Global OEM team is dedicated to meeting the unique needs of OEM Clients, and aims to earn each customer's trust to become an essential partner in their antibody selection and production processes.

Companies around the globe have chosen to partner with AbD Serotec for a variety of strategic reasons.

At the top of this list is access to an impressive and growing range of products. This is followed closely by knowledgeable service provided with utmost discretion, and strong technical support.

Whether you are looking to source a handful of products or a hundred, we can develop a program that meets your objectives.



Diagnostic kit manufacturers have relied on the products and technical expertise of AbD Serotec for over two decades.

Our reputation for product quality, reliable supply, and cost-effective pricing has been earned through close collaborations with major diagnostic companies around the world.

Vast experience has led to a keen understanding of the challenges faced by assay manufacturers and allows our team of OEM specialists to creatively meet the requirements of Clients.



From OEM Concept to Completion

Project planning

OEM Specialists work closely with their Clients to select products from our broad portfolio to best meet their specific requirements.

Throughout the entire evaluation and supply process – from a first sample to timely delivery of a bulk order – our OEM Specialists are there to help.

You can be assured that we treat all data and material that you provide as completely confidential, right down to your name and affiliation. A signed Confidential Disclosure Agreement is available on request.



Quality Control

AbD Serotec's manufacturing team consults with the Client to develop QC protocols for this critical step to assure that the final product can be seamlessly integrated into the Client's manufacturing processes.

All custom QC procedures are performed within our ISO quality assurance system. Antibody purity is assessed by SDS-PAGE, HPLC, or IEF. Immunoreactivity is tested by ELISA, flow cytometry, immunohistochemistry, or Western blotting.

Manufacturing

AbD Serotec's custom manufacturing activities cover a broad range of services tailored to meet product performance specifications for use in diagnostic applications.

OEM Specialists consult with Clients through the entire antibody production, purification, or modification process – from small-scale feasibility studies to bulk production runs – to develop a fully customized program which meets the Client's specific needs.

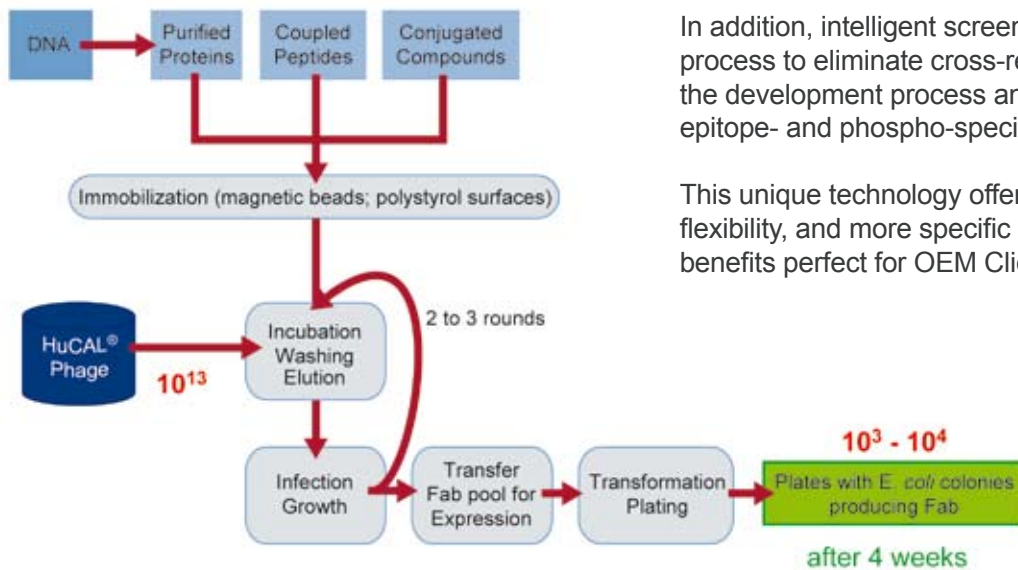
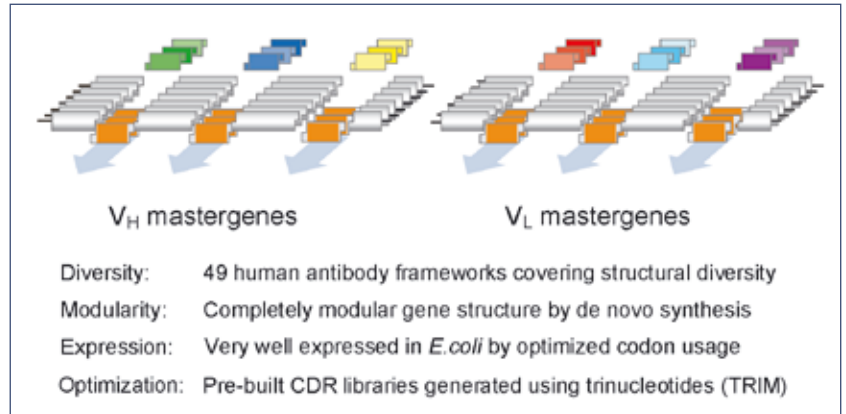


4 Custom Monoclonal Antibodies in Just 8 Weeks

AbD Serotec uses proven MorphoSys HuCAL[®] recombinant antibody technology to deliver highly-specific, purified monoclonal antibodies in just 8 weeks.

The HuCAL[®] library contains more than 45 billion antibody specificities, and can be screened with less than 0.5 mg of immunogen.

As the development process does not involve animals, there are fewer restrictions on the antigens used.



In addition, intelligent screening protocols guide the process to eliminate cross-reactivity problems early in the development process and allow direct selection of epitope- and phospho-specific antibodies.

This unique technology offers speed, greater project flexibility, and more specific antibodies – a combination of benefits perfect for OEM Clients.

AbD Serotec's HuCAL[®] experts work with clients to develop the best strategy for their projects based on the type and availability of starting immunogens and the final antibody application.

They can develop a protocol to direct the selection of exquisitely specific antibodies, exclude reactivity to closely-related compounds, select antibodies which bind to antigens only under certain conditions, identify epitope- or phospho-specific antibodies or select antibodies that are reactive with homologous proteins.

These options are routinely utilized to meet demanding customer product specifications.



An experienced OEM partner you can trust

Custom Antibody Manufacturing Services

Antibody Production *in vitro*

AbD Serotec offers a range of cell culture techniques and production services to provide the most cost-effective option for Client projects.

Cultures can be grown in static flask, spinner flask, or hollow fiber bioreactor to meet production needs from 10 mg to 10 g. Cell lines can be banked and stored.

Our production standards ensure lot-to-lot consistency with batch-tested certification and fully traceable procedures and products. In addition, we offer customized QC protocols which can be integrated into the Client's production SOPs.



Custom antibody development

Our custom monoclonal antibody development packages can be tailored to meet your specific project requirements.

Polyclonal antibody development is available in sheep, rabbits, goats, and other species. Options include modification specific polyclonal antibodies, such as phospho-specific.

We offer customized and flexible projects with support and guidance from experienced personnel at all stages.



Downstream antibody modification

AbD Serotec offers a range of options for the processing and purification of antibodies to maximize yield, purity, and immunoreactivity.

Purification can be completed with Protein G, Protein A, ion exchange, or size exclusion chromatography. Final formulations and formats can be adjusted to specification, including low endotoxin for functional studies, and lyophilization to extend shelf life.

Conjugations from 5 mg to 100 mg are available to an extensive range of markers including enzymes, biotin, and a wide variety of fluorescent labels.

Your First Choice for Antibodies

Our catalog includes more than 14,000 antibodies against analytes of interest in a wide range of diagnostic disciplines. Key specificities from our collection are listed below, with more available on our website. Many of our antibodies are produced in the UK and are available in bulk, making them ideal for diagnostic kit development.



Adrenal function & hypertension

ACTH, Aldosterone, Angiotensin I & II, Cortisol, and Renin



Anemia

Ceruloplasmin, Erythropoietin, Ferritin, Folate binding protein, Folic acid, Haptoglobin, Hemoglobin, Homocysteine, and Transferrin



Antigens

Native antigens, Purified proteins, and Recombinant proteins



Bone & calcium metabolism

Bone alkaline phosphatase, Bone morphogenetic proteins (BMPs), Bone sialoprotein, Calcitonin, Osteocalcin, Osteopontin, Parathyroid hormone (PTH), and Vitamin D binding protein



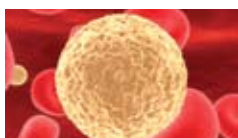
Cardiac markers

Apolipoproteins, Brain natriuretic peptide (BNP), BNP Prohormone (NT-ProBNP), C-reactive protein (CRP), CK-MB, Myoglobin, Myeloperoxidase, S100, Troponin I, and Troponin T



Coagulation

Albumin, Factor B, Factor H, Factor VII, Factor VIII, Factor XIII A, D-dimer, D-monomer, Erythropoietin, Ferritin, Fibrin degradation products, Fibrinogen, Fibrinopeptide A, Fibronectin, Folate binding protein, Hemoglobin, Plasminogen, Protein S, Prothrombin, Transferrin, Urokinase, Vitronectin, and Von Willebrand factor



Cytokine reagents

Interferons, Interleukins, and Recombinant proteins



Diabetes & metabolism

C-peptide, Clusterin, Erythropoietin, Growth hormone, Insulin, Proinsulin, and Resistin



Endocrinology

Adrenal function, Diabetes, Fertility, Glucose metabolism, Growth, Hypertension, Reproduction, and Thyroid function



Gastrointestinal diseases

Adenovirus, Astrovirus, *Campylobacter jejuni*, Cholera toxin, *Clostridium difficile* toxins, Cryptosporidium, Diphtheria toxin, *Escherichia coli*, *Helicobacter pylori*, *Listeria monocytogenes*, Rotavirus, and Salmonella spp



Immunoglobulins

Adsorbed, Affinity purified, Blocking reagents, Quantitation reagents, and Secondary antibodies



Inflammation & sepsis

C-reactive protein (CRP), and Procalcitonin



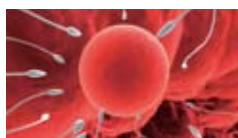
Neurology markers

Alpha anti-trypsin, Alpha synuclein, Amyloid precursor protein (APP), Apolipoproteins, BACE-1, Beta-2 microglobulin, Clusterin, Dopamine, GAD, Glutamate receptors, HTR, Huntingtin, LAMP-1, Myelin basic protein, Neurofilaments, Retinol binding protein, Prion protein, S100, TAU (aa1-16), and Ubiquitin



Pharmaceuticals

Amphetamine, Buprenorphine, Barbiturates, Benzodiazepines, Chloramphenicol, Digoxin, Methadone, Methamphetamine, Morphine, Prednisolone, Ricin, Salicylate, and Temazepan



Reproductive medicine

DHEAS, Estriol, Estradiol, FSH, hCG, LH, Prolactin, Progesterone, and Testosterone



Respiratory diseases

Adenovirus, Anthrax, *Bordetella pertussis*, *Haemophilus influenzae*, Influenza A & B, MRSA, *Mycobacterium tuberculosis*, *Mycoplasma pneumoniae*, *Neisseria meningitidis*, Parainfluenza 1,2,3, RSV, SARS, and Streptococcus A



Serums & accessories

Animal serums, Antibody purification kits, Blood products, Buffers, Cell growth supplement, Isotyping kits, LYNX Rapid Conjugation Kits®, and Mycoplasma removal agent



Sexually transmitted diseases

Chlamydia trachomatis, HIV, *Neisseria gonorrhoeae*, Streptococcus B, and Syphilis



Thyroid function

Thyroglobulin, Thyroid Stimulating Hormone (TSH), Thyroxine (T4), and Triiodothyronine (T3)



Tumor & leukemia markers

Alpha fetoprotein, Beta-2 microglobulin, CA19-9, CA125, Campath-1, CEA, Ferritin, Her2/Neu, Inhibin, MMP, MUC, Neuron specific enolase, p53, PSA, S100, and Syndecan-1



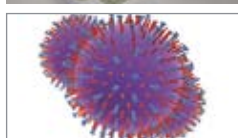
Vector-borne diseases

Borrelia burgdorferi, Filaria, *Giardia lamblia*, Heartworm, Plasmodium spp, *Toxoplasma gondii*, and *Yersinia pestis*



Veterinary science

Companion animal, Equine, Porcine, Poultry, Ruminants, and Veterinary diseases



Viral-borne diseases

Blood-borne viruses, Epstein-Barr virus (EBV), Feline viruses, Hepatitis virus antigens, Herpes Simplex Virus (HSV), Parvovirus, Respiratory viruses, ToRCH, Vaccinia virus, and Varicella virus (VZV)

Setting the Gold Standard Since 1986, BBI offers a range of services for the production of gold-labeled reagents, contract research and development, and manufacturing of rapid diagnostic tests for the Point of Care (POC) market.



Superior quality Gold Reagents

A gold conjugate is one of the most important components of a rapid test, and the production of high quality gold is essential for delivering optimal performance.

BBI's custom conjugation scientists perform more than 300 individual gold conjugations a year across a variety of different, and often unique, applications. The custom conjugation service develops excellent quality conjugates by combining reagents provided by the client, or sourced by AbD Serotec, with BBI's superior gold colloid. Why not ask us to create a gold conjugate for your AbD Serotec antibody?

A portfolio of lateral flow Assay Development Services

The service offered is cost-effective, customized, and fully phased. A typical development program lasts 12-24 months and covers every stage of the process to insure the highest quality standards within the industry. BBI's specialized range of product development capabilities provides a unique skill set, where assay development can be taken from initial antibody screening through to final manufacturing.



A fully flexible Assay Manufacturing Solution

BBI is one of those rare manufacturers that is able to offer a fully flexible solution to customers, from small batch sizes of 10,000 units through to automated runs of over a 100,000 units. This enables BBI to simultaneously address smaller opportunities for clients that are in the early stages of development, while meeting the needs of those with an established market-leading product range.

If you are interested in using BBI products and services, contact our sales team at oem@abdserotec.com, or speak to your Account Manager who would be delighted to help you.

Contact the global team directly at oem@abdserotec.com, or call:

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