

BIOSYNTH®

Company Overview

Securing Life Science Supply Chains





Biosynth's mission is to be the leading life sciences platform for scientists developing revolutionary medicines and diagnostics.

Securing Life Sciences Supply Chains
where Chemistry meets Biology,
where Products meet Services and
where Innovation meets Quality,

Biosynth is at The Edge of Innovation.

With an unrivalled research product portfolio of over half a million products and end-to-end manufacturing services, we are science led and customer focused to solve problems, taking pride in delivering products and projects that others cannot.

Our expertise and capability runs across
Complex Chemicals
Peptides and
Key Biologics

All from one trusted partner.

Who We Are

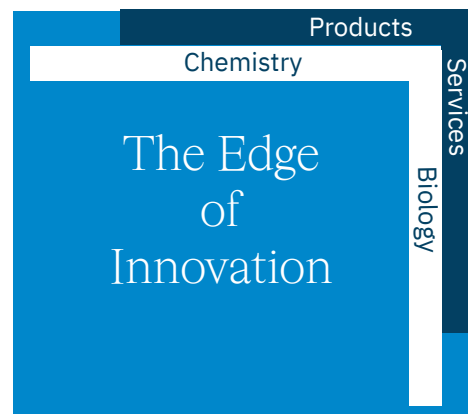
Biosynth is an innovative life sciences reagents, custom synthesis and manufacturing services company. We are by scientists, for scientists, securing supply chains with consistent quality, across the globe. We manufacture and source a vast range of chemical and biochemical products, and take pride in delivering products that others cannot. We are experts in complex chemistry, peptides and key biological raw materials. We provide a full range of products and services to support life sciences research and development, with more than half a million products in our research catalog and hundreds of complex manufacturing service projects. Our complex chemistry specialties include enzyme substrates, carbohydrate and nucleoside chemistry, with manufacturing services from the first idea to the finished product, from route scouting to GMP or ton scale production. For peptides, we also have a full end-to-end offering, from lead discovery and optimization, library production, through to GMP NCE or Neoantigen projects.

Across biologics we have a synergistic offering, with an extensive range of custom bioprocessing enzyme projects for production of key products. We are also able to offer custom antibody projects, and epitope mapping. Through the Biosynth group we also offer development of antibodies, antigens and supply of plasma for in vitro diagnostics.

The trusted supplier, manufacturer and partner for the pharmaceutical, life sciences and diagnostic sectors, along with customers across food, agrochemistry and cosmetics, we have facilities across three continents and a rapid global distribution network. Our main chemical research and manufacturing laboratories are in Switzerland, the United Kingdom, Slovakia and China, with peptide production in the USA and the Netherlands. Enzyme projects are based in Austria and biological IVD reagents in Ireland. Our R&D resources and production facilities are modern and versatile, allowing us to produce chemicals on the milligram to ton scale, and at ISO 9001 and GMP, with peptides at mg to multikilogram scale.

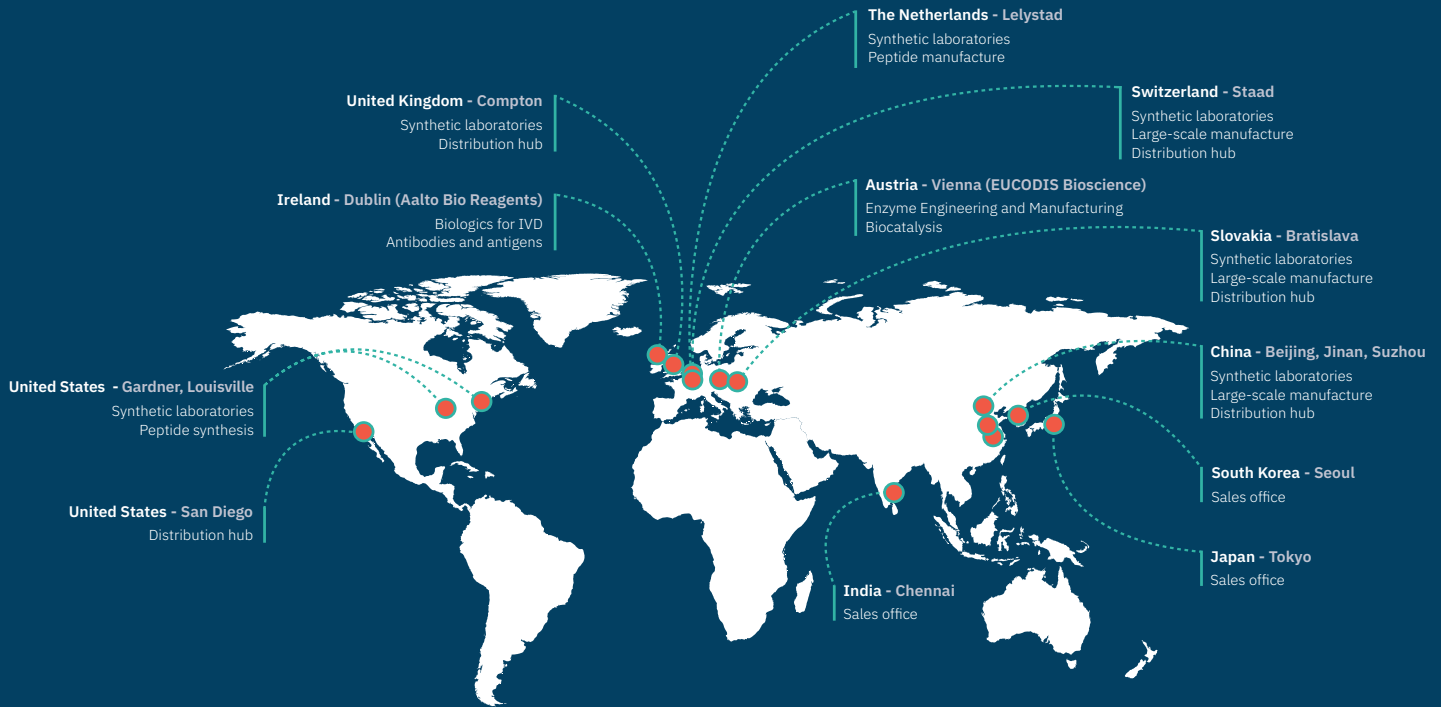
Our History

Biosynth was founded in 1966 by Hans Spitz, and has grown to a global products and services business. Biosynth merged with Carbosynth in 2019 to form Biosynth Carbosynth, creating a world leader in carbohydrates, nucleosides and enzyme substrates. In 2022 Biosynth Group acquired both vivitide and Pepscan, which strengthened the offering in peptide manufacturing services and catalog products. Also in 2022 Biosynth Group acquired Aalto Bio Reagents, expanding the range of biological products and key raw materials for clinical diagnostics including antigens and antibodies, as well as EUCODIS Bioscience, experts in Enzyme development. Following these acquisitions, the company returned to the Biosynth brand. **Biosynth is owned by KKR, Ampersand and senior management.**

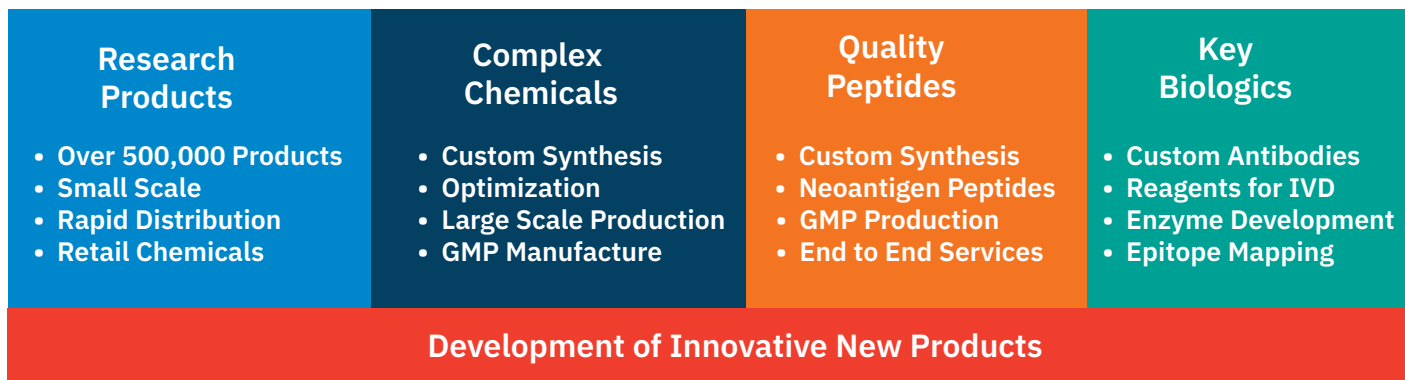


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Global Reach



Four Areas of Focus



Biosynth is an innovative life sciences reagents, custom synthesis and manufacturing services company. We are by scientists, for scientists, securing supply chains with consistent quality, across the globe. We manufacture and source a vast range of chemical and biochemical products, and take pride in delivering products that others cannot. We are experts in enzyme substrates, carbohydrate and nucleoside chemistry as well as custom peptide synthesis and antibody production. We provide a full range of products and services to support life science research and development, with more than half a million products in our research catalogue and hundreds of complex manufacturing service projects.

The divisional structure of the company emphasizes our customers. Our divisions have significant overlap to support all our customer requirements, but each division has a distinct focus on customer needs.



Research Products

0.5M+ Products

Carbohydrates

Nucleosides

Enzyme Substrates

Natural Products

Ligands

Biochemicals

Peptides

Biologics



Research Products

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The Research Products division focuses on small-scale research products, selling small quantities in large numbers to research customers across the globe. The company has invested heavily in a global network of manufacturing and distribution sites across Europe, America and Asia, ensuring supply chain continuation. Our products meet the high-quality requirements for the regulated industries, which benefits our customers in small research laboratories. Research Products is all about delivering high quality research chemicals to enable Bioscience and Pharma research industries to thrive. We take the lead from emerging areas of interest.

Biosynth has more than 500,000 products for research, available at stock locations across our global network. The widest variety from all segments and custom pack sizes are available. If we don't have a product, we can make it!

We take the
lead from
emerging
areas of
interest.

We are the supplier of choice for many in the pharmaceutical, life sciences, food, agrochemistry, cosmetic and diagnostic sectors. We manufacture and source a vast range of chemical and biochemical products and specialize in carbohydrates, nucleosides, and enzyme substrates along with natural products. Our extensive range of Life Science products include ligands, peptides, phospholipids, antimicrobials and buffers. For organic chemistry, we have an unrivalled range of intermediates, building blocks, impurities and coupling reagents.





Complex Chemicals

Route Scouting and Optimization

Small-Scale Manufacture

GMP Manufacture

Large-Scale Manufacture

Analytical Development and QC

Quality Assurance and Regulatory Support

Carbohydrates, Nucleosides, Enzyme Substrates

Chemical APIs and Intermediates

Formulation Ingredients and Excipients



Complex Chemical Services

Our complex Chemical team delivers on more custom, large scale and more complex projects. This includes both Biosynth's own Bulk and Custom products and those of their CDMO customers, making the most of the company's expanding manufacturing sites. Our teams maintain long-term relationships with our clients. We pride ourselves at Biosynth in taking on the most complex challenges in chemistry and solving the problems that no one else can. Our teams of synthetic chemists and production staff are uniquely skilled and able to work very flexibly across different areas of our product lines. As the CDMO business has expanded, our flexible way of working has really benefitted customers. Clients can utilize either Biosynth's entire end-to-end service offering or pick out the aspects that they need at the time they need them. We've had projects that are taken right through from early development and seen into the GMP suite and others in which we have simply transferred in a process, made some small improvements and scaled for large-scale manufacturing at ton scale.

We work on the principle that no chemistry is too hard for us!

We work on the principle that no chemistry is too hard for us - if we don't have a compound, we'll make it. We specialize in the chemistry of carbohydrates, nucleosides and enzyme substrates, both in our catalog research products and in our bulk and custom business. We also have a huge range across antimicrobials, natural products, impurities, intermediates and building blocks.



Chemical Manufacturing Capabilities

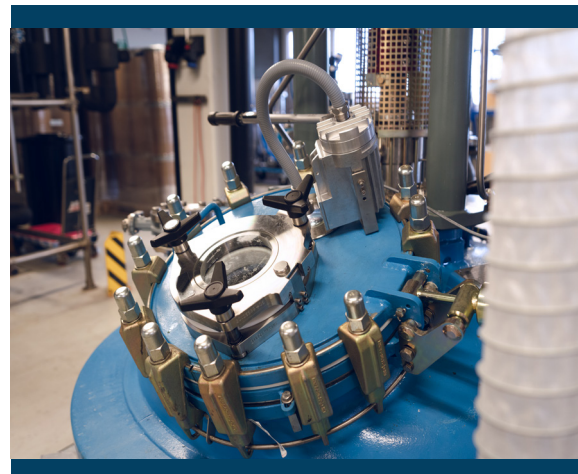
- Custom Synthesis
- Large-Scale Manufacturing
- GMP Manufacturing
- Quality Control and Quality Assurance
- CDMO Services
- Custom Filling and Packaging
- Logistics and Warehousing
- Sourcing
- Analytical Services
- Quality Assurance and Regulatory Support
- Project Management

Custom Services in Detail

Biosynth provide custom synthesis solutions tailored to meet our needs. Our synthetic laboratories operate from modern facilities based in the United Kingdom, Switzerland, Slovakia and China. Our scientists are predominantly Ph.D.-qualified and have extensive industry experience in carbohydrates, imino sugars, glycosylations, nucleosidations and medicinal chemistry.

Our state of the art synthetic labs are equipped with modern preparative and analytical tools:

- Nuclear Magnetic Resonance (NMR) 400 MHz with Broadband Probe
- Liquid Chromatography–Mass Spectrometry (LC-MS)
- Medium Pressure Liquid Chromatography (MPLC)
- Size Exclusion Chromatography (SEC)
- Preparative HPLC
- Microwave Synthesis System
- Automated Purification Systems (Puriflash, Biotage and Companion)
- Rotavapors and Freeze Dryers
- Ultra Performance Liquid Chromatography (UPLC)
- Ion Chromatography (IC) system Dionex
- Gas chromatography (GC)
- Inductively Coupled Plasma (ICP) for Metal Ion Analysis
- Polarimeter for Optical Rotation Measurements



We specialize in the following chemistries:

- Functionalized Carbohydrate Building Blocks and Derivatives
- Oligosaccharide Synthesis
- Nucleosides, Dinucleotides and Analogues
- Heterocyclic Chemistry
- Novel Enzyme Substrates
- Natural Product Synthesis
- Impurities and Metabolites
- Protein Conjugation, Biotin and Click Linkers
- Fluorination, Phosphorylation and Sulphation Chemistry
- High Purity Complex Products
- Synthetic Route Development
- Regulated Materials
- Our State-of-the-Art Synthetic Labs are Equipped with Modern Preparative and Analytical Tools

High quality,
on-time delivery
and confidentiality
are at the core
of our service.

Terms of service:

- Small-Scale to Bulk Quantities
- Experienced Chemists, Predominantly Ph.D.- Qualified
- Timeliness
- Confidentiality
- ISO-Certified Quality Management System - ISO 9001:2015

Our custom synthesis laboratories are headquartered in the United Kingdom and we also have laboratories in Switzerland, Slovakia and China. High quality, on-time delivery and confidentiality are at the core of our service.

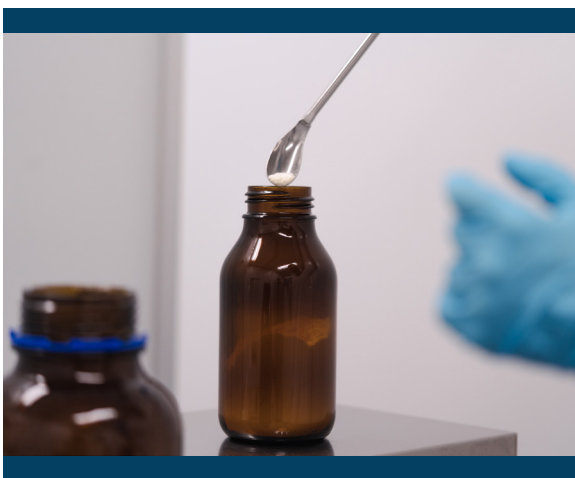
Large Scale Manufacture:

We manufacture a variety of product types that are applicable for pharmaceutical, diagnostic, analytical and research purposes from small-scale to large-scale.

Our team of highly experienced chemists and technicians allow for flexibility in the quantities of products that can be manufactured.

Product Applications:

- Carbohydrate-Based Drugs
- Carbohydrate-Based Detergents
- Antiviral Nucleoside Analogues
- Substrates for Detection of Enzymatic Activity
- Food and Environmental Analytical Compounds
- Cosmetic Ingredients
- Nutraceutical Ingredients





Quality Peptides

Lead Discovery and Optimization

Small-Scale Manufacture and Arrays

GMP Manufacture

Analytical Development and QC

Quality Assurance and Regulatory Support

Neoantigen Peptide

Peptide APIs

Proteomics Tools

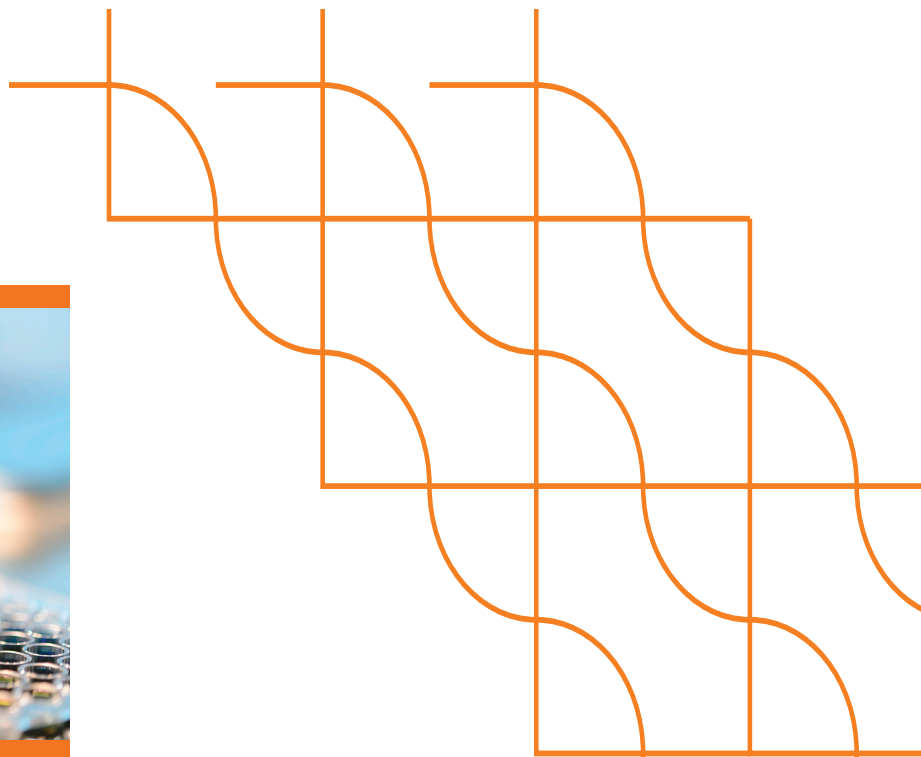


Peptide Services

Our Peptide Division is focused on delivering excellence in peptide design, synthesis at small-scale and large scale, as well as GMP manufacture of peptides for customers. The teams have extensive experience in neoantigen peptides and library production. We also have both lead discovery, optimization and GMP production; meaning we can offer a full end-to-end peptide service. In addition we have teams that are highly skilled in antigen design, antibody purification, and custom peptide-antibody conjugation, and can deliver peptide packages to meet your needs.

We provide a huge range of catalog peptides tailored to meet your research needs. With a focus on high quality and service, our teams take pride in supporting world-class scientists around the globe.

Biosynth is a leading supplier of products to the life sciences community





Key Biologics

Antibodies

Antigens

Proteins

Enzymes

Epitope Mapping

Custom Raw Materials for In-Vitro Diagnostics

Custom Antibody Production

Bioprocessing Enzymes



Key Biologics

The Key Biologics offering includes an extensive range of biologics products and custom services to deliver the highest quality reagents to meet your needs, expanded by the acquisition of Aalto Bio Reagents, vivitide, Pepscan and EUCODIS Bioscience.

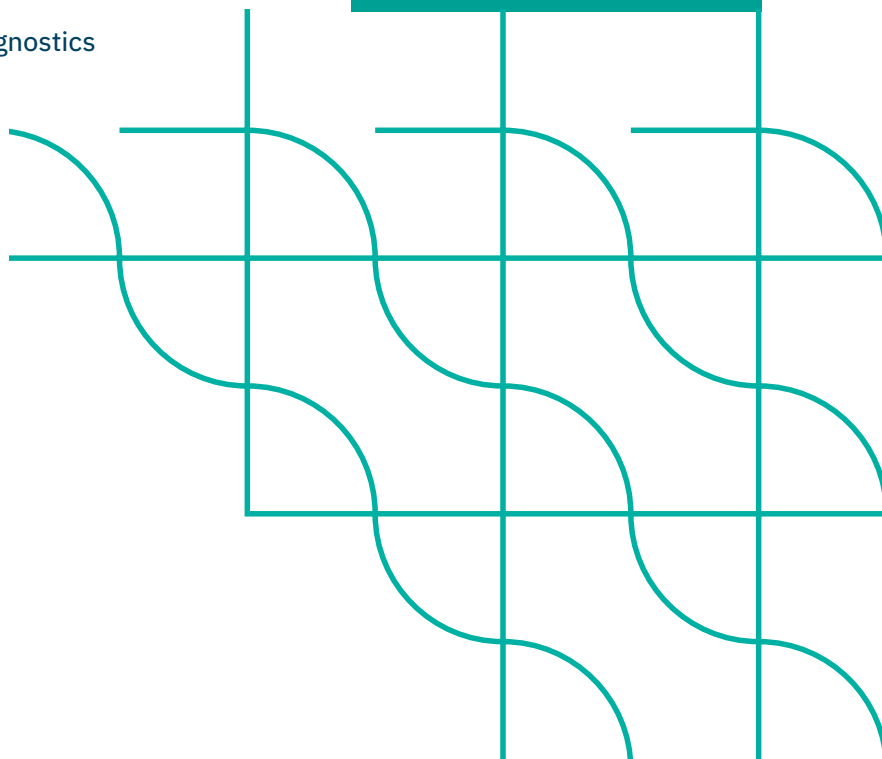
We offer a range of antibodies and antigens for diagnostics following the acquisition of Aalto Bio Reagents, a leader in the development of proteins and antibodies for new and emerging diseases, providing high-quality raw materials to the in-vitro diagnostic industry and research laboratories. The products and custom services include polyclonal and monoclonal antibodies, antisera, plasma and recombinant and native antigens.

- Antibodies and Antigens for In-vitro Diagnostics
- Custom Antibodies
- Epitope Mapping Experts
- Catalog Biologics Products
- Enzymes



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We offer a large range of antibodies and antigens for diagnostics.



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Global locations

Switzerland

United Kingdom

Ireland

Slovakia

United States

China

India

South Korea

Japan

Austria

Netherlands

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