



BIOSYNTH®

# Company Overview

Securing Life Science Supply Chains

**Distributed by:**

**CliniSciences Group**



# 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.

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 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.

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# 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.

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# Chemical Manufacturing Capabilities

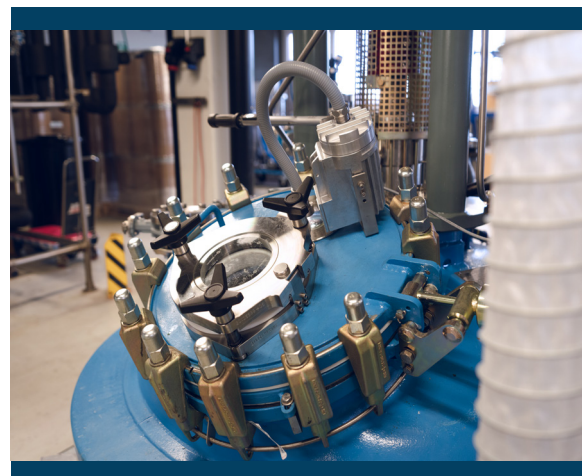
- Custom Synthesis
- Large-Scale Manufacturing
- GMP Manufacturing
- Quality Control and Quality Assurance
- CDMO Services
- Custom Filling and Packaging
- Logistics and Warehousing
- Sourcing
- Analytical Services
- Quality Assurance and Regulatory Support
- Project Management

## 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.

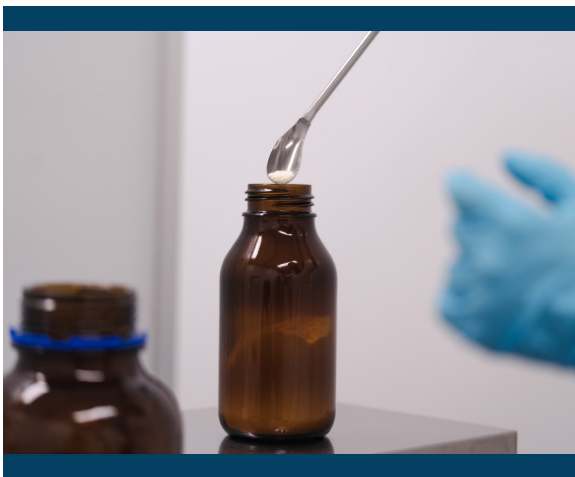
## Large Scale Manufacture:

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



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# Quality Peptides

Lead Discovery and Optimization  
Small-Scale Manufacture and Arrays  
GMP Manufacture  
Analytical Development and QC  
Quality Assurance and Regulatory Support

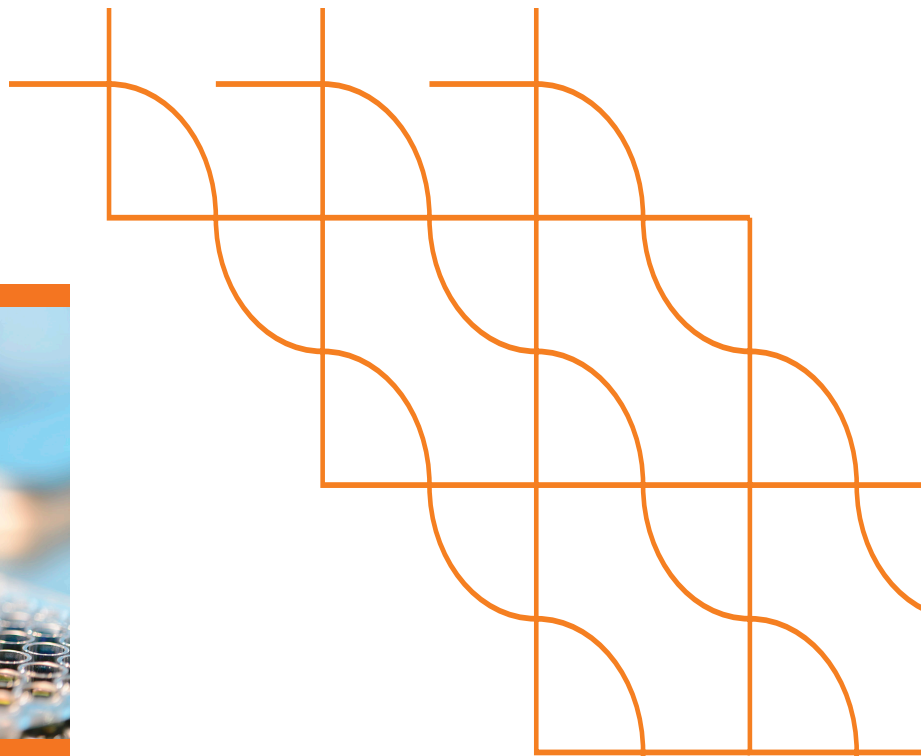
Neoantigen Peptide  
Peptide APIs  
Proteomics Tools

# 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.

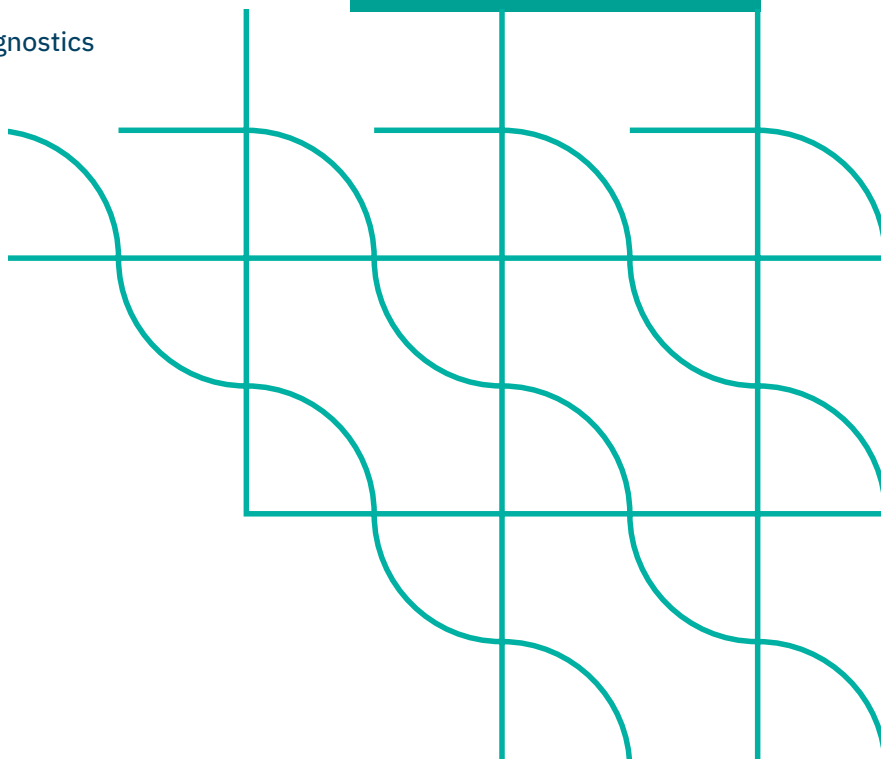
We offer a range of antibodies and antigens for diagnostics following the acquisition of Aalto Bio Reagents, a leader in the development of proteins and antibodies for new and emerging diseases, providing high-quality raw materials to the in-vitro diagnostic industry and research laboratories. The products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