



Quality Therapeutic Oligos – Delivered Fast

- Exceptional Speed and Through-put
- Agile Support from Discovery to Preclinical Success
- Excellence in Oligonucleotide Manufacturing

Microsynth at a Glance

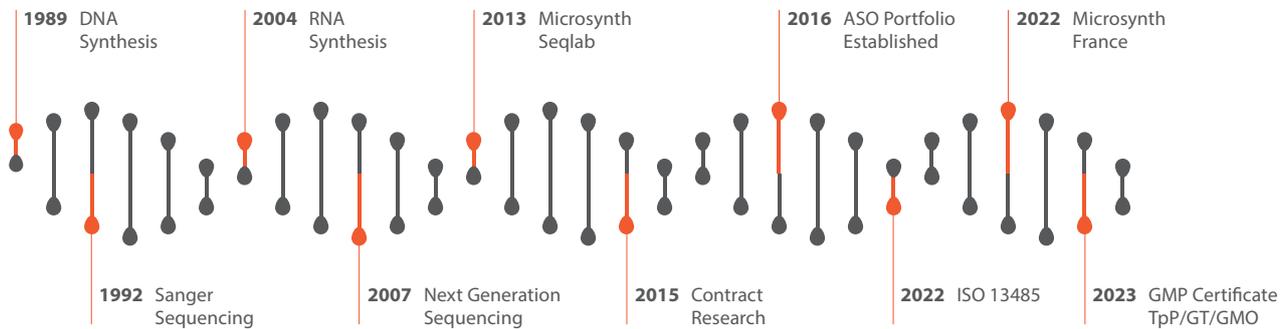
A Real Success Story

In 1989, Microsynth pioneered the availability of DNA oligonucleotides to the broader scientific community, catalyzing scientific research and pharmaceutical discovery. More than thirty years on, we are a leading manufacturer of oligonucleotide products, including those for diagnostic applications. In particular, over the past decade, Microsynth has also gained the reputation of being an innovative supplier of therapeutic siRNA and ASO products. On top of our broad expertise in oligonucleotide synthesis, Microsynth offers comprehensive DNA and RNA analysis services.

These services include Sanger and NGS sequencing, DNA/RNA isolation, PCR assays, and contract research. With over 130 experts working for us in Switzerland, Germany, Austria, and France, our innovative company continues to grow and diversify our range of offerings. We remain fully committed to evolving with the ever-changing needs of our customers, consistently delivering innovation, quality, and exceptional service. And our proven track record means that we are in a prime position to realize sustained success in the years ahead.

Company Overview

Incorporation: 1989
Subsidiaries: Microsynth Seqlab, Microsynth Austria, Microsynth France and Ecogenics.
Expertise: DNA/RNA synthesis and analysis
Employees: >130
Lab Space: 2,850 sqm



Our Brand Promise

For more than three decades, our objective has been straightforward: to provide our customers with products and services of the highest quality, on time, and with

an outstanding level of service – and all this at competitive prices. Furthermore, in performing our work, we are committed to sustainable development, the health of

our employees, and the protection of the natural resources of our planet.



Quality Management System

Microsynth AG is certified according to ISO 9001:2015. Microsynth's oligonucleotide synthesis facility is certified according to EN ISO 13485:2016, which is the formal recognition of our competencies in the area of

production and distribution of nucleic acids and components for IVD manufacturers and the provision of associated activities. ISO 13485 is equivalent to 21 CFR part 820 and is recognized by the FDA.

Microsynth participates in proficiency tests, which are an important part of on-going qualification/validation.

Capabilities & Specifications Our Therapeutic Oligonucleotide Solutions

- **Length:** 10 to 27 nucleotides
- **Production Scale:** From low nmol batches to hundreds of milligrams—and up to gram-scale for in vivo studies
- **Nucleic Acids:** DNA, RNA, 2'-OMe RNA, 2'-MOE, LNA, 2'-F RNA, S-cEt, etc.
- **Modifications:** GalNAc, cholesterol, 5' palmitate, lipids, PTO, mesyl, PN, fluorophores, and other custom options
- **Modalities:** Antisense Oligonucleotides (ASOs) and siRNAs
- **Purification:** Desalting, RP/IEX-HPLC, and Dialysis
- **Quality Control:** MALDI-TOF/ESI MS and analytical HPLC
- **Packaging:** 2 mL tubes, 96-well plates, or glass vials
- **Documentation:** Detailed Technical Data Sheets or Certificates of Analysis
- **Endotoxin Levels:** Guaranteed low endotoxin (validated by external testing)
- **Design Services:** Expert oligonucleotide design support for optimized therapeutic projects



Integrated Digital Solutions for Excellence and Speed

Our Process:

- Easy-to-use online ordering portal with intuitive design upload
- Fully automated synthesis processes ensuring unparalleled speed and precision
- Real-time digital process monitoring from order placement to delivery

Quality & Risk Mitigation:

- Comprehensive Quality Management System certified to ISO 9001:2015 and ISO 13485:2016
- Continuous quality control using online Trityl monitoring, MALDI-TOF/ESI-MS, and analytical HPLC
- Proven track record of delivering high-quality products with effective risk mitigation protocols

Efficiency at Scale:

- Production capacity of up to 10,000 oligos per week
- Flexible batch sizes—from individual screening oligos to bulk production for preclinical studies
- Digitalized process optimization ensuring minimal turnaround times and maximum reliability

Screening Oligonucleotides

Ultrafast and High-Quality Production



Key Expertise

- **Advanced Synthesizer Technology** – Latest state-of-the-art instruments.
- **Proprietary Software** – Cutting-edge systems for optimized throughput.
- **Quality-First Approach** – Rigorous controls throughout production.
- **Unmatched Speed & Precision** – Rapid turnaround without sacrificing accuracy.
- **Full Digital Integration** – Real-time monitoring for continuous process optimization.
- **Tailored Custom Solutions** – Proven methods adapted to your unique needs.

Ultrafast and High-Quality Production

Our fully data-integrated synthesis solution—spanning an intuitive order upload portal to fully automated manufacturing—ensures exceptional speed and throughput.

In numbers:

- ~10,000 oligos produced per week
- Over 1,500 ASO/siRNA sequences per week
- Turnaround times as short as 3–4 working days
- Flexible batch sizes from a single oligo to hundreds



In Vivo Oligonucleotides Optimized for Quality and Speed



Key Expertise

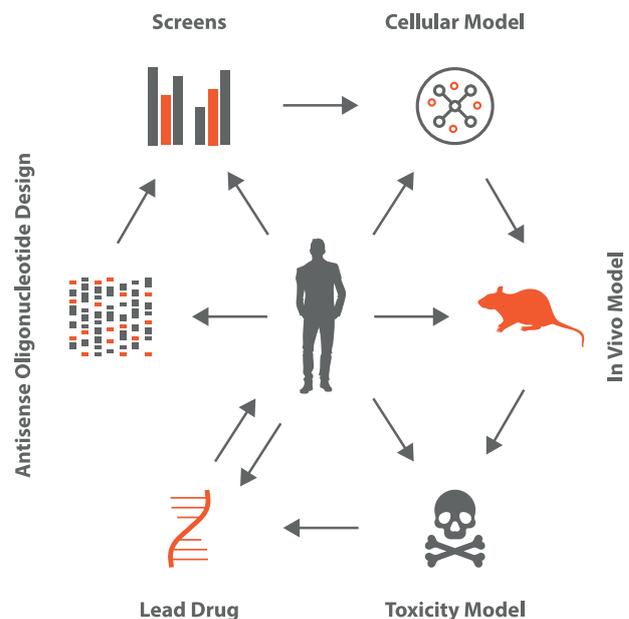
- **Guaranteed Low Endotoxin Levels** – Consistently tested and maintained below strict thresholds.
- **Smart, Cost-Effective Scale-Up** – Efficient processes that quickly adapt to project demands.
- **Speed-Optimized End-to-End Production** – From initial contact to final shipment, every step is streamlined for rapid delivery.

Optimized for Quality and Speed

Our dedicated processes continuously monitor endotoxin levels, routinely achieving <0.1 EU/mg (with a guarantee of <0.5 EU/mg). Our smart scale-up methods enable us to rapidly accommodate your project requirements—ensuring high-quality production at exceptional speeds.

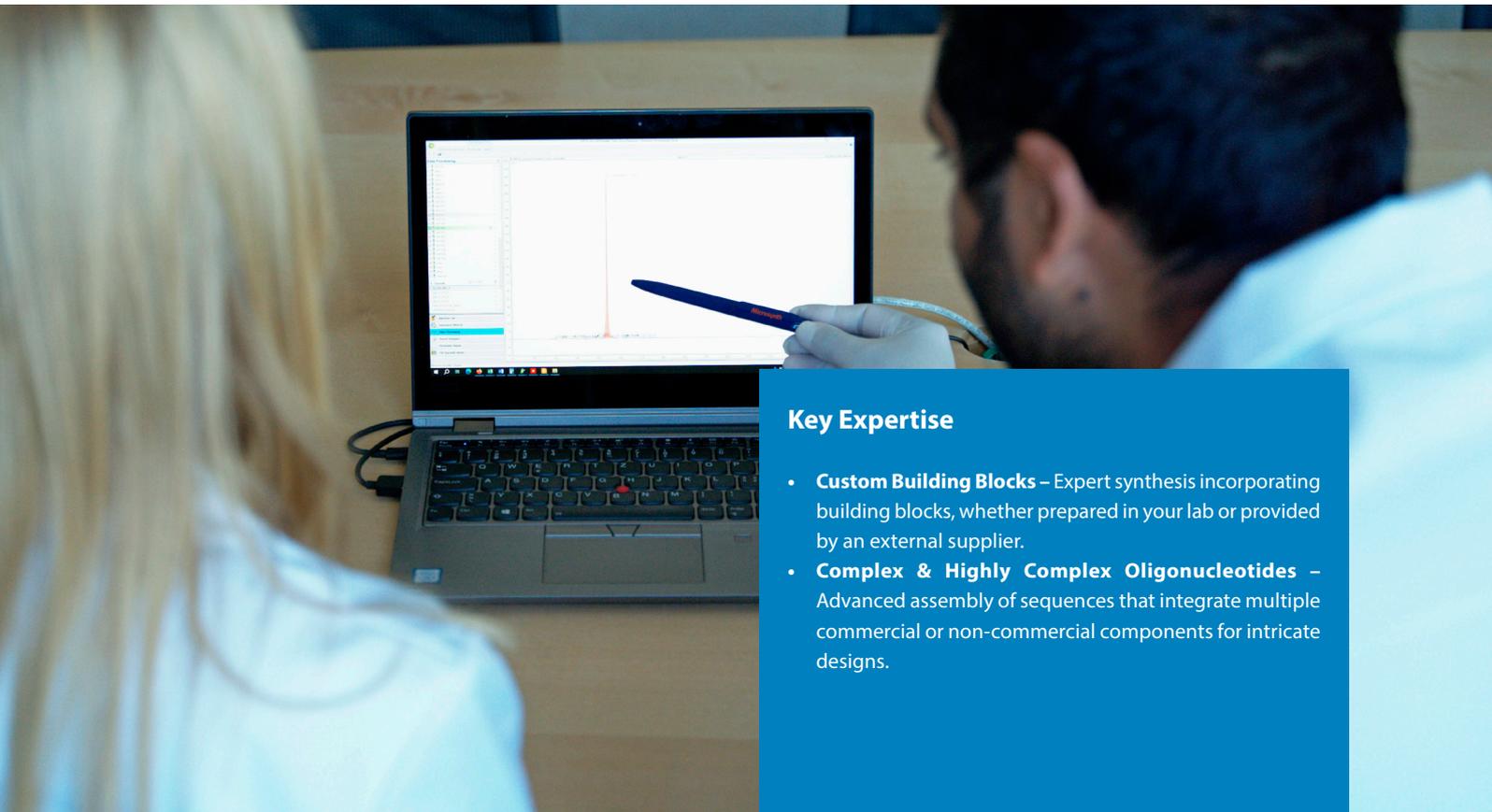
In Numbers:

- Capacity: Over 20 oligos per week (batch sizes ranging from 10 mg to 1,000 mg)
- Manufacturing Time: 5–6 working days
- Endotoxin Testing: Performed by expert laboratories



Project Oligonucleotides

Tailored Oligos, Beyond Standard

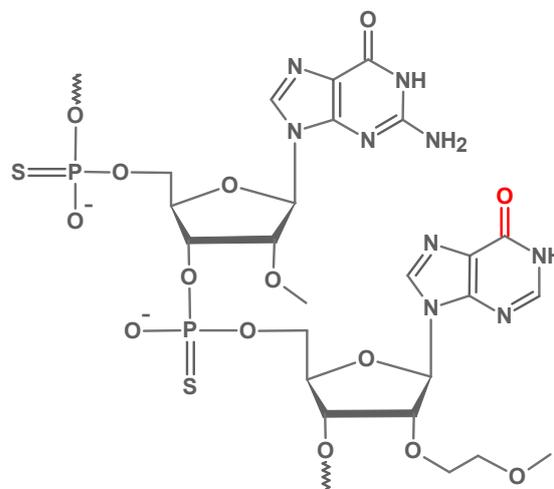


Key Expertise

- **Custom Building Blocks** – Expert synthesis incorporating building blocks, whether prepared in your lab or provided by an external supplier.
- **Complex & Highly Complex Oligonucleotides** – Advanced assembly of sequences that integrate multiple commercial or non-commercial components for intricate designs.

Project Oligonucleotides

In addition to our extensive webshop portfolio, Microsynth excels in developing personalized oligonucleotide projects that go beyond standard synthesis. If your requirements exceed what's available online, we invite you to reach out for an in-depth discussion. We understand that every research initiative or commercial goal is unique, and we are committed to crafting a custom proposal that perfectly aligns with your specific needs.



Why Choose Microsynth?

Tailored Solutions for Drug Discovery & Preclinical Development

Screening Oligonucleotides:

- Rapid synthesis using state-of-the-art technology
- Turnaround times as short as 3–4 working days for hundreds of oligos
- Ideal for early drug discovery and target validation

In Vivo Oligonucleotides:

- Optimized scale-up processes ensuring low endotoxin levels (<0.5 EU/mg)
- Manufacturing capacities ranging from 10 mg to 2000 mg per batch
- Designed for robust preclinical testing and subsequent therapeutic development

Custom & Complex Projects:

- Customized synthesis using proprietary building blocks for complex sequences
- Personalized project management tailored to your unique research goals
- Flexible solutions beyond standard web order parameters



Your Partner for Therapeutic Success

Unrivaled Experience:

- Over 35 years of pioneering expertise in oligonucleotide synthesis
- A proven history of innovation and excellence in therapeutic product development

Innovative Automation:

- Fully digitalized production processes for fast, consistent, high-quality output
- State-of-the-art synthesizer technology and proprietary software solutions

Fast & Flexible Production:

- Rapid turnaround times – as short as 3–4 working days for screening oligos and 5–6 days for scale-up batches
- Scalable production that adapts to your project's evolving needs

Commitment to Quality:

- Rigorous quality control ensuring every product meets stringent standards
- Low endotoxin guarantees validated by independent external testing

Customer-Centric Service:

- Dedicated project management and design support tailored to your requirements
- Customized solutions and flexible project proposals for every unique research endeavor

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