



Excellence in Oligonucleotides

- Research Oligonucleotides
- Diagnostic Oligonucleotides
- Therapeutic Oligonucleotides
- Project Oligonucleotides

Microsynth at a Glance

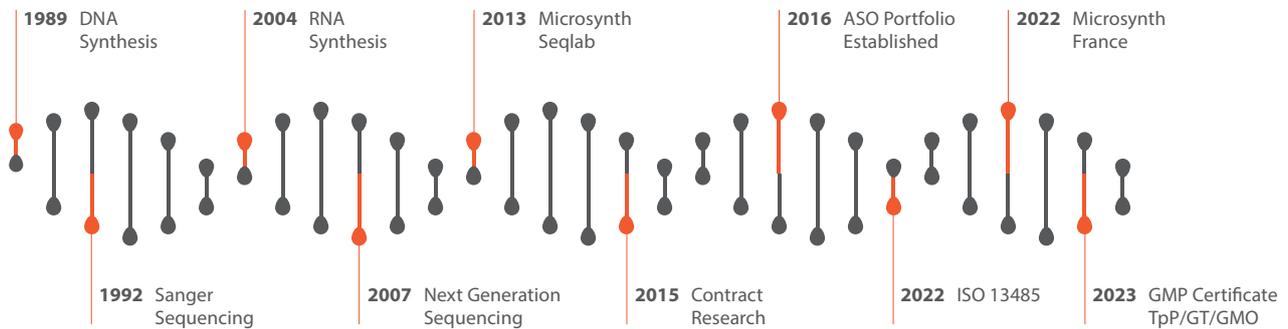
A Real Success Story

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.

Realizing Excellence in Oligonucleotide Synthesis

Since being founded, Microsynth has been a pioneer in custom DNA manufacturing. Nowadays, as a global provider of oligonucleotide synthesis products and services, we drive progress with advanced technol-

ogy and manufacturing protocols that are backed by decades of expertise. High-throughput platforms and meticulous processes, which are continuously optimized by our oligonucleotide process chemists,

ensure the highest quality products. Furthermore, our dedicated project management team is always seeking new opportunities in oligonucleotide synthesis.



Research Oligonucleotides

Empowering Your Daily Discoveries



Specifications

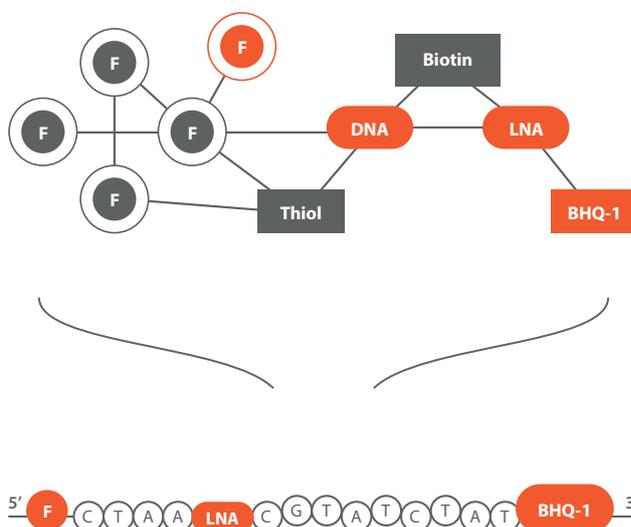
Length:	From 6 to 150 nucleotides
Synthesis scale:	Genomics, 40 nmol, 200 nmol, 1 μmol, 15 μmol
Nucleic Acids:	DNA, RNA, LNA, 2'-OMe RNA, 2'-MOE, 2'-F RNA, etc.
Modifications:	More than 250 modifications
Purifications:	Desalted, RP-HPLC, IEX-HPLC, HPLC and dialysis, PAGE
Quality Control:	MALDI-TOF MS
Format:	Dried or Liquid
Packaging:	2 mL tube or 96-well plate
Documentation:	Technical data sheet or CoA
Shipping:	At room temperature

Microsynth is a leading provider of high-quality oligonucleotides for research purposes. We offer a wide range of custom synthesis services that are designed to perfectly meet the needs of researchers in the fields of molecular biology, genetics, and genomics, among others.

These include, but are not limited to:

- DNA oligonucleotides
- RNA oligonucleotides
- NGS oligonucleotides
- Modified oligonucleotides

Microsynth's oligonucleotides are renowned for their exceptional quality, fast turnaround times, and unwavering technical support. These characteristics make them the preferred choice of researchers worldwide.



Diagnostic Oligonucleotides

From Research to Commercial Kits



Specifications

- Length:** From 6 to 50 nucleotides
- Synthesis scale:** 40 nmol, 200 nmol, 1 µmol, 15 µmol, and µmol amounts
- Purifications:** Desalted, RP-HPLC, IEX-HPLC, HPLC and dialysis, PAGE
- Quality Control:** MALDI-TOF MS and analytical HPLC
- Format:** Dried or Liquid
- Packaging:** According to your specifications
- Documentation:** Technical data sheet or CoA
- Probe Portfolio:** Double-Quenched-, Single-Quenched-, FRET-, LNA-, MGB-Probes

Our rich history of synthesizing primers and probes for diagnostic applications such as qPCR, dPCR, and LAMP has enabled us to extend our support to laboratories and start-ups throughout the entire IVD development process. We are proud to confirm that our synthesis facility is ISO 13485 certified, which

ensures the highest standards of quality and compliance. From initial feasibility studies to comprehensive validation and eventual commercialization, Microsynth provides the highest level of quality products and expertise in oligonucleotide synthesis, DNA/RNA isolation, and

assay development. Our comprehensive range of services and expertise has been carefully designed to seamlessly support your project and facilitate your IVD development journey.



Therapeutic Oligonucleotides

Agile Support from Discovery to Preclinical Success



Specifications

- Length:** From 10 to 27 nucleotides
- Amounts:** low nmol up to several hundreds of mg
- Nucleic Acids:** DNA, RNA, 2'-OMe-RNA, 2'-MOE, LNA, 2'-F-RNA, S-cEt, etc.
- Modifications:** 3'-(GalNAc), 3' Cholesterol, 5' Palmitate, PTO, etc.
- Modalities:** ASOs, siRNAs
- Purifications:** Desalted, RP/IEX-HPLC, dialysis
- Quality Control:** MALDI-TOF / ESI MS and analytical HPLC
- Packaging:** 2 mL tube, 96-well plate, glass vials
- Documentation:** Technical data sheet or CoA
- Low Endotox:** Yes
- Design Service:** Yes

Our unwavering commitment to quality, innovation, and exceptional customer service makes us your ideal partner for the manufacturing of therapeutic oligonucleotides, especially in the discovery phase. We offer a comprehensive suite of custom synthesis and manufacturing services that are

designed to support the development of leading-edge nucleic acid-based therapeutics. Our services include ASO/siRNA design, screening oligonucleotide production, and oligonucleotide production for *in vivo* studies, with capacities of up to hundreds of milligrams of low-endotoxin-tested

material.

Beyond our portfolio of screening ASOs and siRNAs and ASOs for *in vivo* testing, we also work closely with our customers to advance their custom projects and tailor ideal solutions that will meet their specific needs.



Project Oligonucleotides

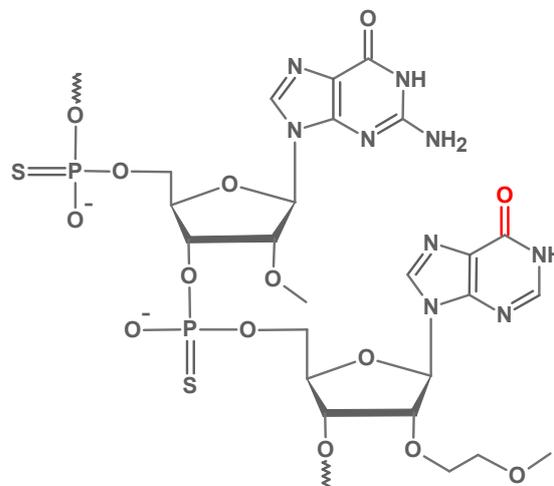
Tailored Oligos, Beyond Standard



Our Key Expertise

- **Custom Building Blocks:** Synthesis of oligonucleotides with custom building blocks (phosphoramidites synthesized in your lab or by an external supplier)
- **Complex and Highly Complex Oligonucleotides:** Complex and highly complex oligonucleotides with multiple commercial or non-commercial building blocks.
- **Custom Mixing:** Custom mixing of oligonucleotides according to established protocols.
- **Functional Testing and QC Release of Oligonucleotide Mixtures:** Functional testing of oligonucleotides or oligonucleotide mixtures and functional QC release of oligonucleotides or oligonucleotide mixtures.

In addition to our extensive portfolio that can be ordered directly through our webshop, Microsynth also specializes in personalized oligonucleotide projects that go beyond standard synthesis requirements. If your oligonucleotide needs are beyond the scope of a standard web order, we invite you to contact us for a more in-depth discussion of your project. We understand that every research endeavor or commercial goal is unique, and we are ready to provide you with a customized project proposal that perfectly aligns with your unique goals.



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