

High quality nucleic acid products for
research, diagnostics, and therapeutics



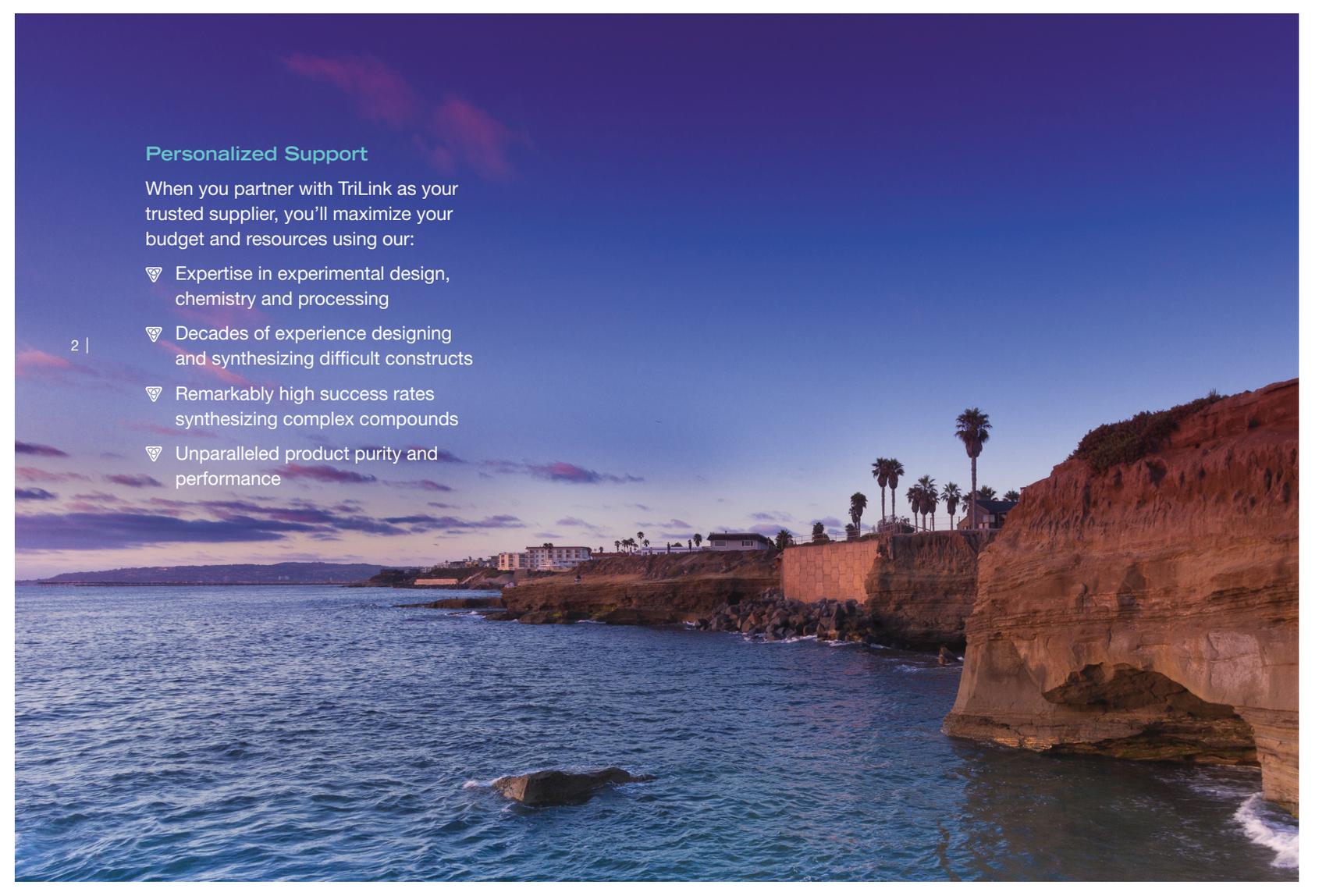
The Modified Nucleic Acid **Experts™**



Personalized Support

When you partner with TriLink as your trusted supplier, you'll maximize your budget and resources using our:

- ▽ Expertise in experimental design, chemistry and processing
- ▽ Decades of experience designing and synthesizing difficult constructs
- ▽ Remarkably high success rates synthesizing complex compounds
- ▽ Unparalleled product purity and performance



Partnering with You to Help Advance Innovation

For almost 20 years, TriLink has been an industry leader manufacturing high quality nucleic acid products for research, diagnostics, OEM and therapeutics. We are known throughout the world for our ability to successfully synthesize difficult and unusual constructs.

We specialize in oligonucleotides, mRNA and long RNA, modified nucleotides, and custom chemistry. In addition, we have an extensive OEM program that includes research, diagnostic and therapeutic grade GMP manufacturing.

We understand first hand how important reliable, high quality products are to your business. That's why we've put robust programs in place to provide the best customer service and technical support in the industry.

TriLink offers many services, including:

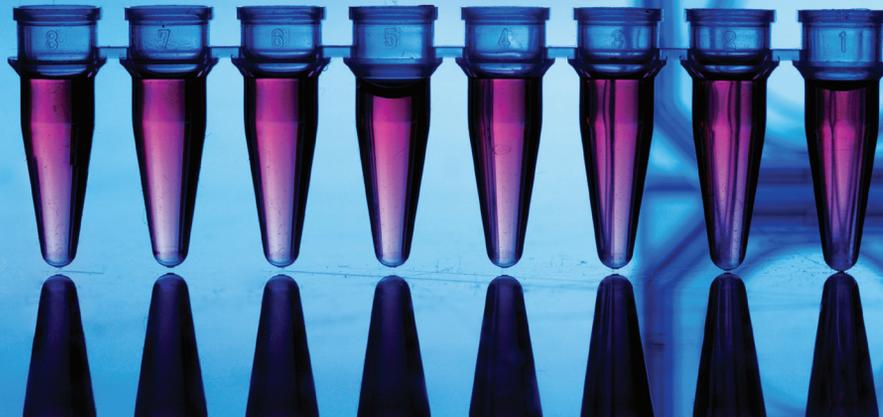
- ✔ A dedicated technical support representative to personally oversee and communicate with you about your project
- ✔ Access to our expansive team of modified nucleic acid experts with decades of experience
- ✔ Personal consultation to determine the scale, QC and level of documentation needed for your current and long term project goals
- ✔ Evaluation of your synthesis scheme and recommendations for efficient transition to commercialization

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Quality

TriLink operates GMP laboratories with a QSR environment that includes:

- ▽ ISO 9001:2008 certification
- ▽ FDA 21 CFR 820 compliance
- ▽ Therapeutic GMP facility in compliance with ICH Q7, CFR 210 and other phase-appropriate GMPs
- ▽ Robust quality system for document control
- ▽ On-site audits welcome



Diverse Product Lines to Meet Your Needs

DNA, RNA and Modified Oligonucleotides

Whether you're looking for standard oligos or complicated sequences and modifications, we can synthesize your DNA or RNA oligonucleotide at the scale and purity that you need. With our combination of extensive expertise and wide selection of dyes, quenchers, modified bases, linkers, spacers and other conjugates, we can make just about any oligo.

CleanAmp™ PCR and CleanTag™ Library Prep Products

We've applied our expertise in modified nucleic acid chemistry to develop a specific, sensitive and flexible alternative to hot start DNA polymerases. CleanAmp™ products are ideal for all PCR, RT-PCR and qPCR applications. Our CleanTag™ technology improves upon traditional RNA library prep by using modified adapters to reduce adapter dimers and significantly improve the quality of sequencing data.

Modified Nucleotides

We stock over 200 modified nucleoside triphosphates (NTPs), including aminoallyl, biotin and 2' Fluoro modified nucleotides. In addition, we offer specialty modified nucleotides such as bisphosphates, monophosphates, ARCA, CAP and mCAP. Whether you seek solutions for indirect DNA labeling, cDNA synthesis, nuclease resistance or a new application, we have the right NTP for you.

Custom Chemistry

Our custom chemistry and contract research services include synthesis of unique NTPs, phosphoramidites, mono-, di- and triphosphates, and other small molecules. Our R&D scientists possess an average of 23 years of experience developing and optimizing nucleic acid synthesis schemes. We're confident we can provide you with the best technical support and the finest products on the market.

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Gold Standard mRNA and Long RNA Products

Custom mRNA Synthesis

We offer affordable custom synthesis of research, diagnostic and therapeutic mRNA for discovery and early-phase clinical trials at scales ranging from micrograms to grams. TriLink's mRNA synthesis service is tailored to meet your specific application or program needs. Our expert technical support team is available to guide you through the process from template source to final production. We synthesize mRNA and long RNA (up to multiple kilobases) with a wide array of modified nucleoside triphosphates (NTPs) that impart desirable characteristics to in vitro transcribed RNA such as nuclease stability, increased translation or altered interaction with innate immune receptors.

Extensive catalog of stocked mRNA products

For your convenience, we also have a wide selection of stocked mRNA products, including mRNA for gene replacement, immunotherapy and vaccines, tools for genome editing and reprogramming, and reporter genes for delivery optimization. All of our mRNA products offer:

- ✔ High quality at competitive prices
- ✔ Scientific and technical support from our team of experienced RNA scientists
- ✔ Fully traceable documentation
- ✔ Path to pharmaceutical (therapeutic) GMP manufacturing

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A Fast, Cost-Effective Approach to Therapeutic GMP Manufacturing

We've combined our expertise in nucleic acids with a state-of-the-art facility to now offer therapeutic GMP manufacturing. With a wide variety of available synthesis scales, you can get just the amount of material you need for IND-enabling tox studies and early phase clinical trials. We can deliver your therapeutic material quickly and at an affordable price regardless of the scale. In addition to drug substances, we'll provide supporting documentation to streamline the IND submission process and carry you through to clinical trials—saving you time and money.

The controlled labs feature:

- ✔ Validated ISO Class 7 and Class 8 clean rooms
- ✔ Compliance with ICH Q7, CFR 210 and other phase-appropriate guidelines
- ✔ Single pass, HEPA filtered air system
- ✔ Routine monitoring of temperature, pressure, humidity and particle count
- ✔ Validated (IQ/OQ) processes, equipment and computer systems

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Proven history with cutting edge technology and innovation

Since 1996, we've been collaborating with our customers at the forefront of scientific discovery to enable everything from exploration to commercialization. For example, we recently entered into a contract with Battelle Memorial Institute to manufacture mRNA for a trivalent vaccine effective against aerosolized exposure to Ebola Sudan, Ebola Zaire, and Marburg viruses. The vaccine is part of a project conducted by the Medical Countermeasure Systems (MCS) – Joint Vaccine Acquisition Program (JVAP) in conjunction with the Department of Defense.

Trusted partners throughout the Life Science and Pharmaceutical industries

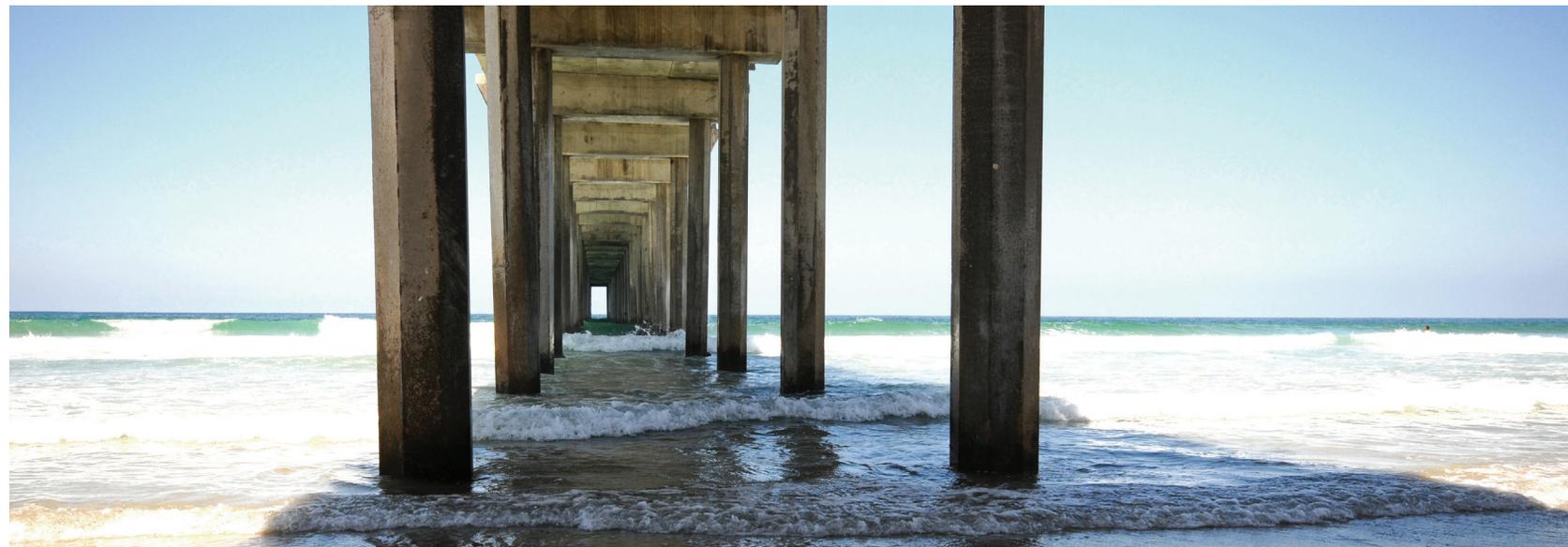
We have partnered with numerous companies such as Applied Biosystems®, Avecia, and GenMark Dx® (formerly Osmetech Molecular Diagnostics). For several years we supplied ABI with custom dye-labeled oligonucleotides used in their SOLiD™ Systems for next-generation sequencing. We also worked with Osmetech to optimize proprietary oligonucleotide modifications for their eSensor® Cystic Fibrosis Carrier Detection System and the eSensor® XT-8 System for Warfarin Sensitivity.

First hand experience with SBIR Grants from the NIH

Since our inception, we have received multiple Phase I and Phase II SBIR grants from the National Institutes of Health, totaling almost \$3M. We understand how competitive SBIR applications are and that one key to success is having the right partnerships in place. Our refined protocols and ability to successfully develop new synthesis schemes may give you the advantage you need to obtain your grant.



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