

DNA OLIGOS AND ULTRAMER DNA OLIGOS

Generate consistently reliable data from the highest fidelity oligos available



Complete confidence in oligos that are verified by ESI-mass spectrometry



Quick delivery with >90% of orders shipped within 24 hours



Unrivalled control of oligo specifications with custom formulation and mixing options

All single-stranded and duplexed sequences are produced with industry leading coupling efficiencies, resulting in higher quality DNA products. Our proprietary technologies allow us to produce high quality Ultramer™ DNA Oligos, long oligos up to 200 bases. (Figures 1–2).

To push the limits of oligo synthesis, we developed specialized platforms that allow us to deliver the highest quality PCR primers, dual-labelled probes for qPCR, indexed adapters for NGS, long biotinylated oligos for NGS target capture, and other advanced and custom products.

Each oligo undergoes extensive quality analysis, including evaluation by ESI-mass spectrometry to ensure sequence composition*. Our manufacturing processes are standardized at every production site around the world, so you consistently receive the highest quality oligos.

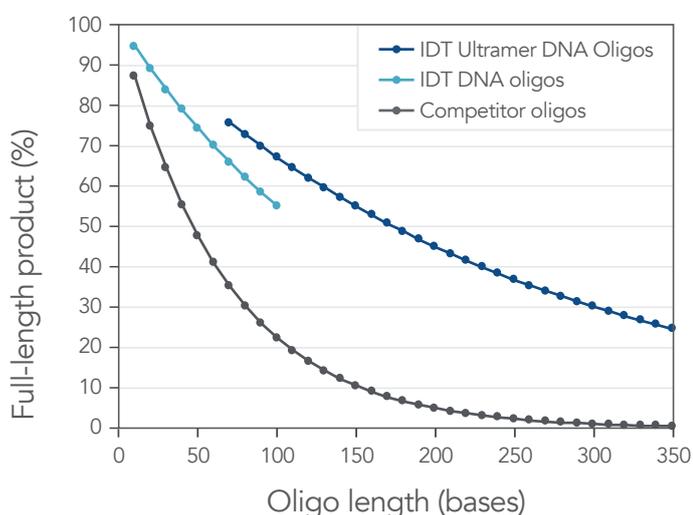


Figure 1 The higher the coupling efficiency, the higher the yield of full-length oligos. The theoretical yield of different oligo lengths comparing IDT industry-leading coupling efficiency of 99.4% for IDT Standard DNA Oligo and 99.6% for IDT Ultramer Oligos to an industry standard of 98.5%. Our proprietary synthesis technology ensures you receive more full-length products even out to 350 bases in length. Percent full-length product = (Coupling efficiency)^(Oligo length - 1)

* With the exception of mixed base oligos, which could potentially represent multiple sequences and therefore, cannot be accurately evaluated by ESI mass spectrometry.

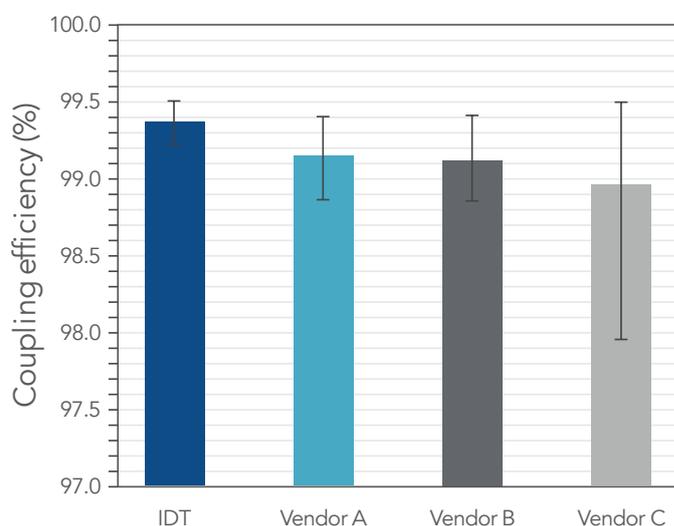


Figure 2. Consistently high coupling efficiency from IDT synthesis. Unmodified 30–45 base oligos (n = 64) were ordered from different suppliers over a 12-month period. IDT oligos had the highest coupling efficiency, and exhibited the smallest variance around the mean.

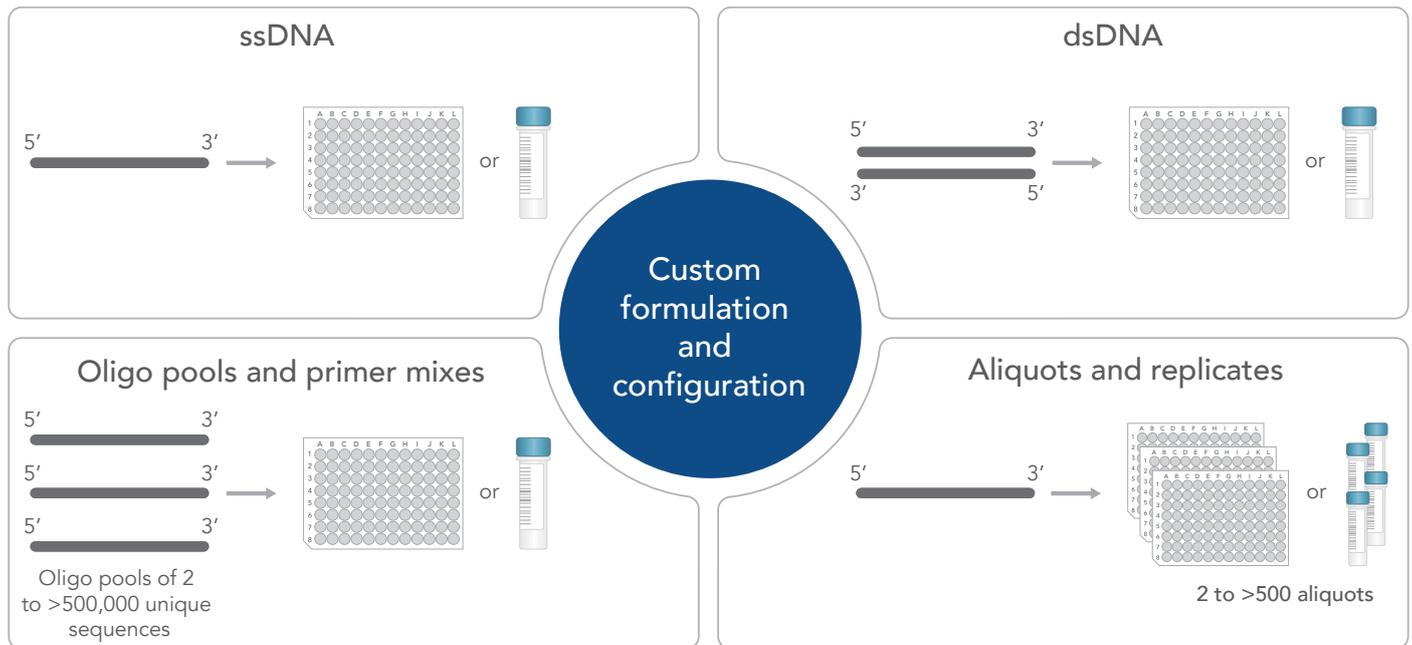
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MODIFICATIONS AND MODIFIED BASES

Select from more than 400 modifications including: quenchers, spacers, linkers, modified bases, fluorophores, and modifications for click chemistry. Our technical support team can provide guidance on which modifications are best suited to your specific application. Learn more at www.idtdna.com/mods.

CUSTOM FORMULATION AND PACKAGING

Customized services from primer mixes and oligo duplexes, to pools of tens of thousands of unique oligos in equal or varying quantities are available. Learn more at www.idtdna.com/formulations.



SCITOOLS™ WEB TOOLS

Plan your experiments and design oligos that perform optimally for your conditions with our online software tools. The OligoAnalyzer™ and UNAFold tools allow you to determine GC content, sequence complement, and secondary structure characteristics such as melting temp (T_m) and self-complementarity. The PrimerQuest™ Tool can be used to design primers and probes for PCR-based applications. Learn more about these tools, and additional applications at www.idtdna.com/SciTools.

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