



BiosearchTechnologies
Oligo Synthesis



NxGrade Custom Oligonucleotides

Minimise barcode crosstalk for more reliable NGS results

NxGrade™ custom oligonucleotides are purpose-built for NGS indexing primers and adapters, offering exceptional value, high purity, and maximal cross-contamination control.

Manufactured through an optimized workflow engineered for NGS oligo quality, NxGrade oligos are purified using reverse-phase cartridge (RPC) technology. This approach effectively removes truncated species and other impurities while reducing the contamination risks commonly linked to HPLC purification.

Specifications

Purification type	Optimized reverse-phase cartridge
Standard delivered amounts	Small: 5 nmol yield per oligo Medium: 20 nmol yield per oligo Large: 50 nmol yield per oligo
Cross-contamination level	<0.05%*

*Typical cross-contamination levels are determined by routine NGS monitoring.

- **High quality at great value**
Oligos with high purity and reproducibility without the added cost of HPLC purification.
- **Low cross-contamination**
Consistently low oligo cross-contamination to reduce barcode crosstalk and improve data integrity in multiplexed NGS experiments.
- **Flexible formulation options**
Choose from single, paired, or annealed oligos to fit seamlessly into your workflow.
- **Dedicated support for your larger projects**
Work with our collaborative team to develop and deliver high-volume or commercial products tailored to your exact specifications.



**Diagnostics
& Genomics**

Seeking a partner for your next NGS project?

Flexible custom formulation options for high-volume projects

Our dedicated, collaborative team works closely with you to customize formulation, delivery format, and labeling to meet the exact needs of your project.

Our capabilities include:

- **Bulk oligo production in plate format:** quantities up to 100s of nmol per sequence, with a wide range of available modifications.
- **Versatile delivery formats:** 96-well or 384-well PCR plates, deep-well plates, or Matrix tubes.
- **Ready-to-use plate options:** stamped, single-use plates with heat seals for streamlined workflows.
- **Custom labeling:** tailored labeling to support seamless integration into your tracking and LIMS systems.
- **Controlled manufacturing environment:** formulations produced in an **ISO 13485-certified**, non-oligo synthesis facility.
- **Collaborative QC development:** partner with us to design and validate in-process and final QC methods, including QC plates and outgoing NGS QC.

For more information, please visit:

oligos.biosearchtech.com/products/ngs-oligos/nxgrade-custom-oligonucleotides

in visit: biosearchtech.com

