



Custom oligo synthesis

9+

Probe types

1000+

Available mods

40+

Years of experience

Expansive portfolio. Extensive experience. Exactly what you need.

Take advantage of our expertise and experience to build high quality custom oligos to your exact specifications with our large selection of probe chemistries, modifications, purification options and manufacturing scales.

Quality from research grade to commercial use

Our research grade oligos are manufactured under a **ISO 9001:2015**-certified QMS. We manufacture commercial grade oligos under an **ISO-13485:2016** QMS, applicable for medical device applications including in vitro diagnostics.

Having multiple oligo manufacturing sites in Denmark and the United States allows us to offer expanded production capability and synthesis scales, risk mitigation, manufacturing redundancy and surge capacity.



Site	Size	Quality standard
1 Petaluma, California	11,600 m ²	ISO 9001 ISO 13485
2 Novato, California	670 m ²	ISO 13485
3 Lystrup, Denmark	6,611 m ²	ISO 9001 ISO 13485

Email: info@biosearchtech.com
Website: www.biosearchtech.com

BIOSEARCH™
TECHNOLOGIES
GENOMIC ANALYSIS BY LGC

Explore our diverse selection of probe types.

One of the benefits of working with Biosearch Technologies is our extensive probe technology menu. Try multiple probe types early in assay development and select the type that best aligns with your specific performance requirements.

Minor groove binder (MGB) probes



These hydrolysis probes contain an MGB moiety that increases the probe T_m , allowing a shorter probe design for improved sequence specificity and sensitivity. Ideal for enhanced detection of SNPs and more difficult targets such as AT-rich sequences. Licence-free for any application.

BHQ™ Probes

Traditional hydrolysis probes with a 5' fluorophore and 3' Black Hole Quencher (BHQ) covalently bound to an oligo. Take advantage of our industry-leading BHQ quenchers and assemble your BHQ Probe with a dye from our expansive menu, covering the entire spectrum, including FAM, TET, HEX, JOE, CAL Fluor™ and Quasar™ dyes.

BHQplus™ Probes

BHQplus probes use modified C and T nucleotides to permit the design of shorter probe sequences, and allow for enhanced specificity and sensitivity. This proprietary duplex stabilising chemistry enables better mismatch discrimination in SNP genotyping assays as well as makes them ideal for detecting difficult target sequences such as AT rich regions.

Scorpions™ Primers

Similar to Molecular Beacons, Scorpions Primers also use a stem-loop conformation to quench fluorophore signal until hybridisation. In addition, a PCR primer is directly conjugated to the 3' end, with a blocker preventing primer extension in the wrong direction. This enables a rapid, high fidelity, uni-molecular signaling mechanism with the option for post-PCR melt curve analysis.

Locked nucleic acid (LNA) probes



LNA bases are modified RNA bases in which the ribose is 'locked' with a methylene bridge. When selectively inserted into a DNA probe, LNA bases increase binding affinity and enable precise T_m control, allowing improved sequence specificity and sensitivity. Insert up to seven LNA bases in your probe. Licence-free for commercial use.

BHQnova™ Probes

Double-quenched BHQnova probes can significantly reduce background noise when long probes (>25 bases) are needed or when performing a multiplex assay. These hydrolysis probes have a 5' fluorophore, 3' BHQ, and an internal Nova quencher for enhanced quenching efficiency and greater signal-to-noise ratio.

Molecular Beacons

Molecular Beacons consist of a stem-loop structure that brings the 3' quencher and 5' fluorophore into close proximity until target hybridisation. Molecular beacons offer excellent stability and selectivity and unlike hydrolysis probes, they remain intact throughout the cycling protocol, allowing for post-PCR melt curve analysis.

Other probes

- Valumix assays for SNP genotyping
- Valumix assays for qPCR and gene expression
- Design your custom probes with our extensive list of modifications

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Australian Distributors:

FISHER BIOTEC AUSTRALIA

Free Call: 1800 066 077

Email: info@fisherbiotec.com

web: www.fisherbiotec.com