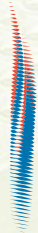


Corning® DNA-BIND™ Surface



CORNING
Discovering Beyond Imagination

Life
Sciences



The Corning DNA-BIND surface provides for covalent immobilization of biomolecules, enabling the development of a wide variety of high-throughput solid phase assays.

Quality and Performance

- ▶ Ready-to-use surface, no preactivation required
- ▶ Stable surface chemistry does not desorb over time
- ▶ High specificity and low background

Versatile

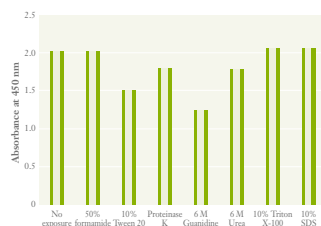
- ▶ Use with aminated DNA, peptides, and other small aminated molecules
- ▶ black and white plates for fluorescent and luminescent studies available

Protocols Provided

- ▶ DNA hybridization assay
- ▶ Solid-phase PCR
- ▶ Kinase assay

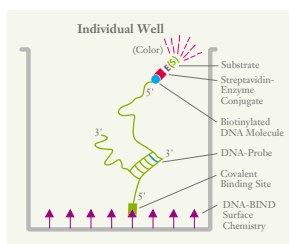
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Availability of Coupled Oligonucleotides for Hybridization After Exposure to Denaturants



Oligonucleotides were detected by hybridization with a fluoresceinated probe.

DNA Hybridization Assay



The above scheme demonstrates how the DNA-BIND surface works in a typical DNA hybridization assay: 1) an aminated DNA probe is coupled to the DNA-BIND surface; 2) biotinylated sample DNA is added and hybridizes to the DNA probe; 3) a streptavidin-enzyme conjugate is added and couples to the biotin-labeled DNA, and 4) substrate for the enzyme is added, resulting in a colorimetric response.

The Corning DNA-BIND surface provides a convenient method to covalently immobilize ssDNA by either the 5' or 3' end. Immobilized DNA can be used for hybridization and amplification. The versatile surface may also be used to immobilize peptides and other small biomolecules* enabling the analysis of protein/ligand, protein/protein, and protein/DNA interactions. The DNA-BIND Application Guide, available on the Corning Life Sciences web site, www.corning.com/lifesciences, details protocols and technical parameters for customizing applications with the DNA-BIND surface.

Specifications

DNA-BIND Reactive Molecule	N-oxysuccinimide (NOS)
Number of Reactive Sites:	1 x 10 ¹⁴ /cm ²
Binding interaction	Covalent peptide bonds
Sample Properties	Free amine group for covalent coupling
Surface/Sample Preparation	No preparation required Diluent: 0.5mM phosphate buffer

*Use with large biomolecules, such as antibodies, are not recommended.

Ordering Information

Cat. No.	Format	Qty/Pk	Qty/Cs
6573	96 Well PCR Plate (Model M)	1	25
2497	1 x 8 Stripwell™ Plate, White	1	50
2498	96 Well Solid Black Plate	1	50
2499	96 Well Solid White Plate	1	50
2505	96 Well Clear Plate	1	50
2506	1 x 8 Stripwell Plate, Clear	1	50
2525	96 Well Clear Plate	1	10

For additional product and application information, and a complete listing of our International Offices and Distributors, visit our website: www.corning.com/lifesciences. For all other inquiries, please call 1.978.635.2200.



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