

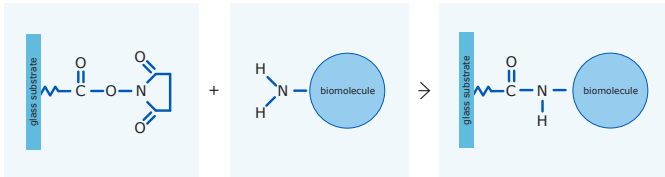
3-D Hydrogel Coating (H)



The NEXTERION® 3-D Hydrogel coating provides the ideal surface for the covalent immobilization of biomolecules containing primary amines (NH_2 groups) such as proteins, antibodies and most peptides. Additionally, for amino-modified biomolecules like glycans or oligonucleotides this surface may be the coating of choice. This type of coating has proven to be a very attractive alternative to the commonly used nitrocellulose-coated slides, especially when low background noise or slide transparency are important. It ensures an extremely low non-specific binding and helps preserving the native three-dimensional structure of complex bio-molecules, thus maintaining conformation and functionality. As a result, it attains excellent signal-to-background ratios. Produced in ISO class 5 clean room conditions using a proprietary thin-film deposition process and running a stringent quality control system, the 3-D hydrogel coating is offered in standard and custom formats.

Product Information

Coating Chemistry



NEXTERION® 3-D Hydrogel coating chemistry

Shelf Life

Twelve months for sealed packages when stored at -20°C .

Immobilization Method

Covalent binding via amine reactive chemistry.

Probe Types

- Amino-linked glucans
- Antibodies and antibody fragments
- Functional proteins such as enzymes or receptors
- Small protein fragments such as peptides
- Amino-modified oligonucleotides 16 to 70 mers





Advantages

Material

- High-quality borosilicate glass
- Alternative substrate materials can be offered

Formats

- Standard sizes (slide format, SBS plate format)
- Customized dimensions and thicknesses

Structuring

- Pre-scoring
- Hydrophobic coating for multiplexing

Markings

- Barcodes (1D e.g. code 39, code 128; 2D e.g. QR, data matrix)
- Logos
- Position markings and fiducials

Quality

- Proprietary thin-film deposition process optimized by SCHOTT
- Excellent intra- and inter-lot reproducibility
- Physical and functional quality control
- ISO class 5 clean room production
- Relevant processes in place for diagnostic company needs

Supply Forms

Product	Size (mm)	Thickness (mm)	Pieces per pack
Slide H, barcoded	75.6 x 25.0	1.0	25
Plate H	110.0 x 74.0	1.0	5
Customized H	Variable	0.170–2.5	Variable



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