

Streptavidin Coating (HS)

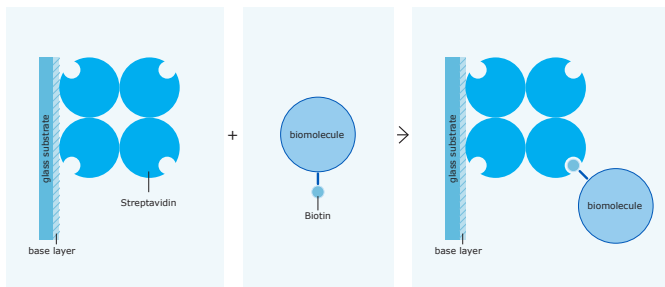


The NEXTERION® Streptavidin coating is specifically developed for binding all types of biotinylated molecules. Biotin-tagged molecules are immobilized in a directional way to the streptavidin molecules and applied onto the glass substrate. The proprietary thin-film deposition coating process produces a very high density, as well as an extremely uniform coating of streptavidin molecules. The resulting surface has a very high binding capacity combined with a low signal variance across a single slide as well as different slides and batches.

Produced in ISO class 5 clean room conditions using a standardized process and running a stringent quality control system, streptavidin coated substrates are available in standard and custom formats.

Product Information

Coating Chemistry



NEXTERION® streptavidin coating chemistry

Shelf Life

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

To protect the activity of the streptavidin layer, a protective coating is added on top of the reactive coating prior to packaging. This layer must be removed prior to use by a washing step. The streptavidin layer on Slide HS is very sensitive to elevated temperatures. It is therefore necessary to ship the product in a frozen state with dry ice. The product must immediately be put into a freezer upon arrival. Repeated freeze and thaw cycles should be avoided.

Immobilization Method

Binding via biotin.

Probe Types

- All molecules that can be biotinylated





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 HS	75.6 x 25.0	1.0	25
Customized HS	Variable	0.170–2.5	Variable



SCHOTT Technical Glass
Solutions GmbH
Otto-Schott-Straße 13
D-07745 Jena, Germany
Phone +49 (0)3641/681-4066
Fax +49 (0)3641/681-4970
info.nexterion@schott.com

www.schott.com/nexterion

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