



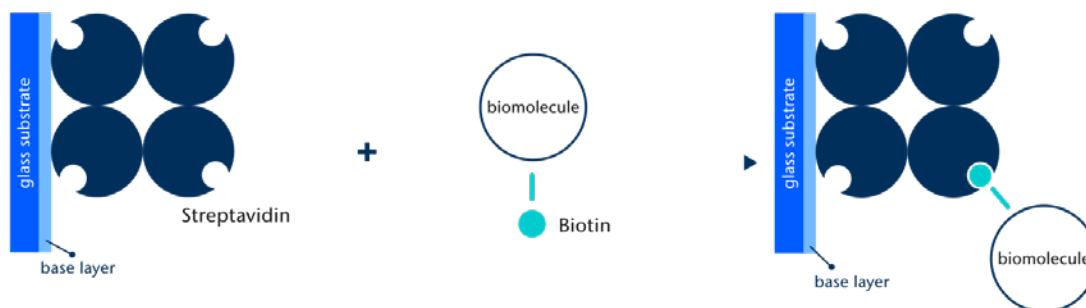
SCHOTT NEXTERION® Streptavidin Coating (HS)

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.

Coating Chemistry:



Shelf Life:

Six months in sealed original packaging 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

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MINIFAB



Material:

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

Formats:

- Standard sizes (slide format)
- Customized dimensions and thicknesses

Structuring:

- Pre-scoring
- Hydrophobic coating for multiplexing

Markings:

- Barcodes (1-D e.g. code 39, code 128; 2-D 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.com/coatings

