



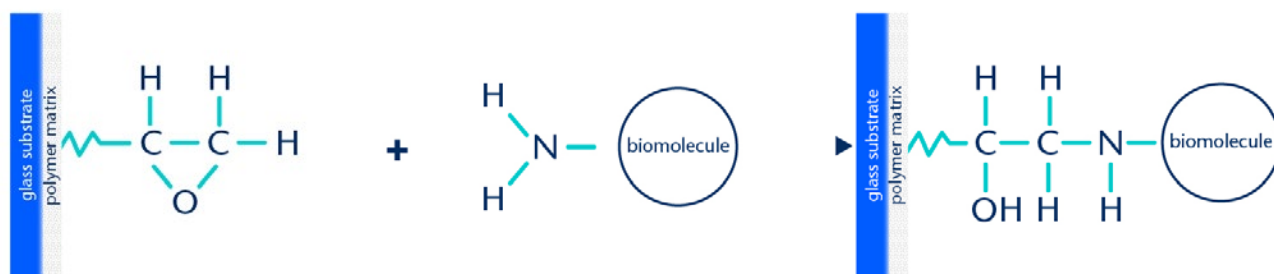
# SCHOTT NEXTERION® 3-D Epoxy Coating (E+)

The NEXTERION® 3-D Epoxy coating enables optimal binding of biomolecules such as DNA, RNA, peptides, proteins, and cells on solid surfaces for molecular diagnostics and immunoassay applications.

NEXTERION® specialized polymer coatings prevent unwanted biomolecule adsorption on various materials, enhancing selectivity over 2-D-silan-based systems. They also speed up test processing by removing blocking steps and allow for localized application on any substrate size. This type of coating technology offers the possibility to equip the coating with other functional groups for diagnostics and immunoassay applications.

Produced in ISO class 5 clean room conditions using a standardized process and running a stringent quality control system, 3-D Epoxy coated substrates are available in standard and custom formats.

## Coating Chemistry:



## Shelf Life:

Stable at room temperature for up to 12 months.

## Immobilization Method:

Binding via amino-, thiol-, hydroxyl-, and isocyanate reactive chemistry.

## Probe Types:

- Unmodified oligonucleotides
- PCR products
- Antibodies and antibody fragments
- Amino-modified oligonucleotides
- Amino-linked glucans
- Functional proteins such as peptides or receptors
- Small protein fragments such as peptides



**Material:**

- High-quality borosilicate glass or polymer
- 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 (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 E+	75.6 x 25.0	1.0	25
Plate E+	110.0 x 74.0	1.0	5
Customized E+	Variable	0.1 – 2.5	Variable



[schott.com/coatings](https://schott.com/coatings)

