General information on coated slides

NEXTERION® barcoded slides

NEXTERION® coatings

SCHOTT offers a wide range of functional coating chemistries for DNA and protein microarraying.

NEXTERION® coated slides are available with a standard functional coating, or also with an additional reflective dielectric layer (NEXTERION® HiSens slides). These innovative, next generation microarray slides were developed to identify low expressor genes, or low-abundant proteins, by offering a significant increase in sensitivity over traditional transparent glass slides. The functional coating and protocol are the same as for standard slides.

The following table indicates the most appropriate slide coating for specific microarray applications (NEXTERION® multiwell slides and plates or optically coated HiSens version of the recommended NEXTERION® coating are also available):

Probe type	Functional coating	NEXTERION® coating	Comments
Oligonucleotides	Epoxysilane	E	First choice for all types of oligonucleotide arrays
	Aminosilane	A+	Popular option for oligonucleotide arrays
	3-D thin film	H	Oligos have to be amino-modified
cDNA/PCR	Aminosilane	A+	
	Epoxysilane	E	
	Aldehydesilane	AL	Alternative for amino-modified cDNA/PCR probes
Bacterial artificial chromosomes (BAC)	Aminosilane	A+	
	Epoxysilane	E	
	Aldehydesilane	AL	Use with amino-modified BACs
aCGH	Aminosilane	A+	
Peptides	Epoxysilane	E	
	Aldehydesilane	AL	Alternative for robust peptide probes
Proteins	3-D thin film	H	
	Epoxysilane	E	
Cells/Tissues	3-D thin film	H	Optimal environment for cells and tissues
Antibodies	Epoxysilane	E	Aldehydesilane /AL
	3-D thin film	H	
Glycans	3-D thin film	H	

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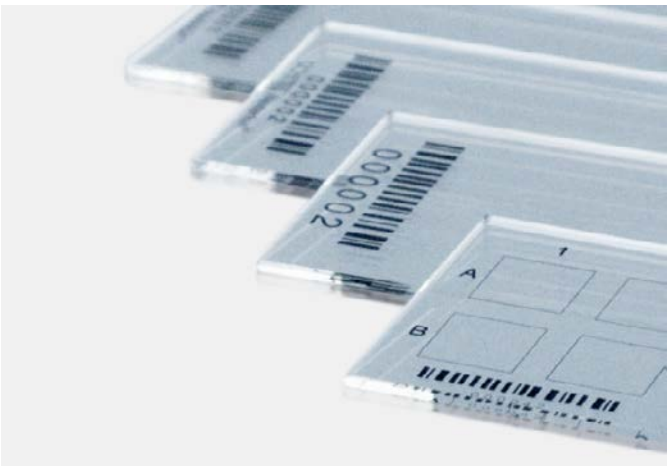
Barcoding

NEXTERION® coated slides are available with or without a barcode. The types of barcodes available are either a label barcode or a special black laser bonded foil barcode.

The barcodes are fully compatible with commercial automated hybridization stations, and are robust enough to withstand standard hybridization and washing procedures.

The barcodes conform to code 128, and are readable with all commonly available microarray scanners and hand-held bar-code readers.



Different barcode options

Packaging

NEXTERION® coated slides are packed in convenient 25 or 30-slide containers for high throughput applications. The boxes are made of a specially developed plastic material to minimize out-gassing, and maintain the slide coating properties. The slide boxes are sealed in tough protective laminated foil pouches under an inert atmosphere.

The specially developed packaging protects the slides from damage due to breakage and external contamination. It also offers protection from the adverse effects of light and humidity during transportation and long-term storage.

25-slide box

Box for 5 MTP plates or 30 slides

5-slide box

Laminated foil pouch with an inert atmosphere to provide a protective environment

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