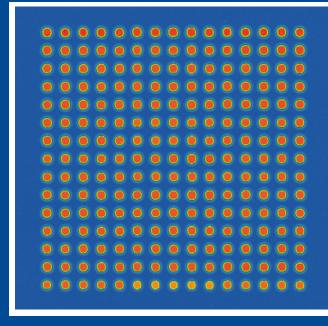
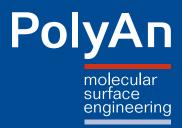
Functionalized Microarray Slides







High performance consumables

PolyAn is a nanotechnology company specialized in the modification of surfaces using Molecular Surface Engineering (MSE). Since 1996 PolyAn develops and manufactures consumables for multiplex diagnostics and LifeScience research.

Consumables for Microarrays

PolyAn is one of the leading producers of functionalized substrates for microarrays. Our wide range of surfaces, substrates and handling tools for microarrays enables our customers to select the most suitable substrate for their specific application.

Microparticles

PolyAn is offering a portfolio of monodisperse PMMA (poly methyl methacrylate) microparticles (beads) for multiplex bead assays, calibration of flow cytometers and calibration of fluorescence imaging systems. PolyAn's microparticles can be colour encoded with a wide range of fluorescent dyes and functionalized with PolyAn reactive 3D-matrices.

Functionalized Microplates for Immunoassays

PolyAns microplates are used for immobilizing biomolecules that inefficiently coat by passive adsorption. PolyAn offers Amine binding, 3D-Azide and Streptavidin coated 96-well plates for challenging ELISA applications.

Calibration tools for fluorescence imaging systems

Re-usable calibration tools for fluorescence based detection systems. PolyAn's calibration slides for cell assays are for example used as quality controls in a number of IVD systems for immunology applications.

Molecular Surface Engineering Services: PolyAn is able to equip almost any substrate with our reactive matrices for selective immobilization and antifouling surfaces for the reduction of cell adhesion and unspecific binding, respectively. As part of our Molecular Surface Engineering services, we offer functionalized consumable and substrate materials for OEM applications, which are tailored to specified customer requirements.









Standard Product Overview

PolyAn is proud to offer one of the broadest product portfolios for microarray substrates on the market. Our products include plastic and glass slides, metal and metaloxides as well as functionalized 96-well plates for various microarray applications.

Surface modifications

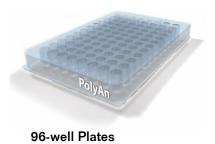
2D-Epoxy	3D-Epoxy		
2D-Amine	3D-Amine		
2D-Aldehyde	3D-Carboxy		
2D-Maleimide	3D-Aldehyde		
2D-NHS	3D-NHS		
2D-Carboxy	3D-PDITC		
2D-PDITC	3D-Maleimide		
2D-Azide	3D-Thiol		
2D-Thiol	3D-Poly-L-Lysine		
2D-Antifouling	3D-Streptavidin		
2D-Streptavidin	3D-Neutravidin		
2D-Neutravidin	3D-Antifouling		



Glass Slides & Coverslips

3D-Epoxy
3D-Amine
3D-Carboxy
3D-Aldehyde
3D-NHS
3D-PDITC
3D-Maleimide
3D-Thiol
3D-Poly-L-Lysine
3D-Streptavidin
3D-Neutravidin





We offer customized slides with a surface modification tailored to your specific application. PolyAn also functionalizes coverslips, thin plastic films, membranes and particles with our 3D-reactive matrices.

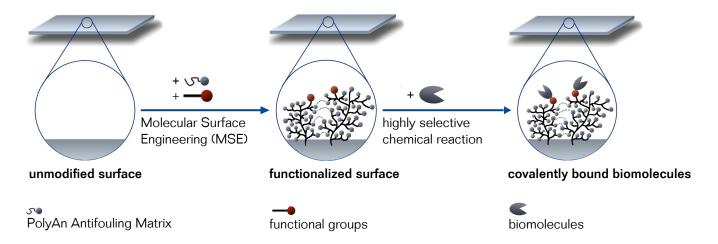
PolyAn is the European distributor of Grace Bio-Labs' Nitrocellulose slides, SecureSeal™ and ProPlate™ product families.

Polymer Slides



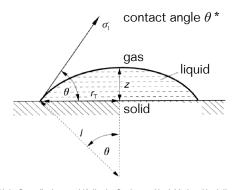
Molecular Surface Engineering (MSE) for 3D-Surfaces

PolyAn's high-performance Microarray Slides are functionalized with a **3D-surface chemistry** comprised of a long-chain polymer containing a defined number of reactive groups. This polymer is covalently linked to the surface of the slide.



Our MSE-technology gently binds the functional layer onto the surface without damaging the base substrate. The morphology of the functional surface and thus the number of the reactive groups can be fine-tuned within a narrow range. This yields a number of advantages:

	covalent binding of functional layer onto the substrate without increasing the autofluorescence of base material
low unspecific binding	combination of reactive functional groups with PolyAn antifouling matrix
optimal density and high accessibility of functional groups	morphology and thickness of functional layer tailored to the desired application
uniform spot morphology	narrow variation of surface properties e.g. contact angle homogeneous distribution of functional groups
topography	tuneable surface hydrophilicity / hydrophobicity (contact angle)



The contact angle is a measure of the wettability (hydrophilicity) of the surface. A narrow specification of the contact angle ensures uniform spot morphology (within a slide and from batch-to-batch) and can also be used as an indicator for the overall homogeneity of a surface.

^{*} Brezensinski, G., Mögel, H.J., Grenzflächen und Kolloide, Spektrum Akad. Verlag, Heidelberg (1993)

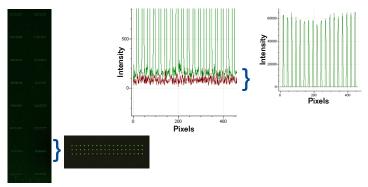






Surface Homogeneity

PolyAn's functionalized slides are characterized by a narrow specification of their surface properties, e.g. contact angle and loading, as illustrated in the adjacent figures. The integrated antifouling matrix significantly reduces the background fluorescence of the peptide arrays used in this experiment.



3 x 18 spots TAMRA labelled peptide, immobilized via Lys-sidechain. Readout performed with Axon Genepix 4200AL.*

The image above nicely illustrates the low spot-to-spot variation and excellent spot morphology of PolyAn's reactive 3D-matrix. Additionally, the integrated antifouling matrix ensures a low background outside of the spots resulting in an excellent signal-to-noise ratio.

Excellent Shelf Life

PolyAn's slides are characterized by a long shelf-life when stored dry, at room temperature and protected from sunlight. All slides are packaged in boxes under Argon atmosphere to avoid contamination with particles. The Argon atmosphere also minimizes degradation of the reactive surface through contact with air or humidity. Our slides are available in boxes of 5 and 25 slides, respectively.

Handling & Buffers

The functionalized substrates should be used in a dust-free environment. Particles on the slide surface may cause defects in the probe binding and cause uneven background.

Unreacted biomolecules and buffer residues must be removed from the slide surface after printing by extensive washing. Additionally, it is necessary to rigorously de-activate remaining free reactive groups on the slide. In order to ensure an optimal performance we advise to use small blocking molecules for de-activating any reactive groups hidden in the 3D-matrix to achieve an optimal performance. PolyAn also offers a range of **buffers & blocking reagents** that are optimized for our reactive surfaces.

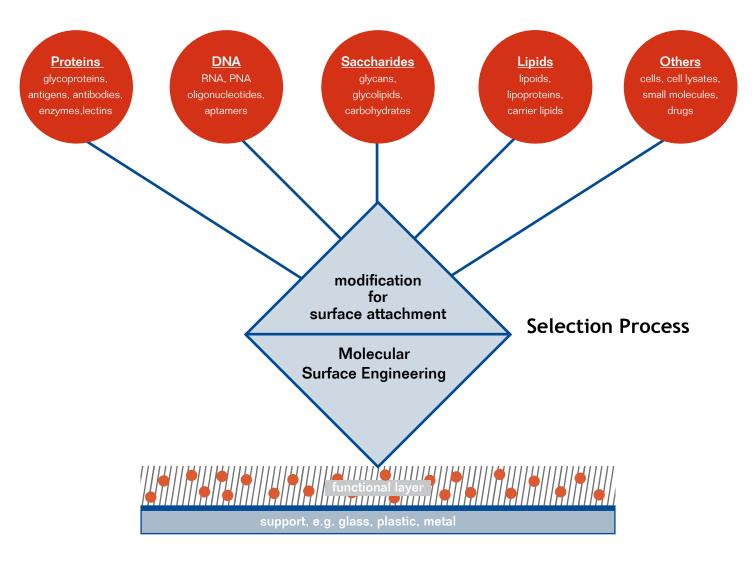
Please do not hesitate to contact us, if you have any questions regarding the handling of our surfaces. As part of our technical service we will be happy to support your work.



^{*} Source: JPT Technologies

Immobilization of biochemical Species onto Surfaces

Selecting the optimal immobilization method for a probe is often an iterative process. For the immobilization of biochemical species various coupling techniques and coupling approaches have been developed. PolyAn offers a very broad portfolio of surfaces and substrates to enable the selection of the optimal surface for each probe and application.



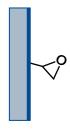
The strongest immobilization method in biochemistry is the covalent attachment. A covalent bond is formed by sharing of electrons between two atoms. The dissociation energy for a typical covalent bond is 420 kJ/mol and thus far higher compared than the 130 kJ/mol of a typical electrostatic interaction. It can be distinguished between a covalent attachment of activated targets and a covalent attachment of biological species on activated surfaces.





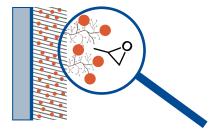


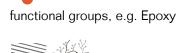
2D- versus 3D-reactive Surfaces



2D-Slide with functional groups, e.g. Epoxy

- ultra-thin (mono)layer
- rigid structure
- cost-effective reactive surface
- suitable for glass and metal oxides







3D-Slide with Antifouling Matrix and functional groups, e.g. Epoxy

- thickness: 1-50 nm, depending on application
- swellable hydrogel
- tentacular branched polymer structure
- partly cross-linked, but fully penetrable for small molecules
- adjustable contact angle
- variable density / surface concentration of functional groups
- co-functionalized with antifouling matrix

Reactive Groups

Functional Group		Immobilization of biochemical species containing	
NHS-activated Carboxy	-N	amino groups	p.10
Ероху	~ ⁰	nucleophilic groups, e.g. amino or thiol or hydrazine	p. 8
Amino	-NH ₂	activated carboxy groups, or electrostatic adsorption of negatively charged species	p. 9
Aldehyde	~ (H	amino groups, hydrazine groups	p. 8
PDITC activated Amino	-NH NH	nucleophilic groups, e.g. amines, hydrazines _n==s	p.13
M aleimide	- N	thiol groups	p.11
Thiol	—SH	thiols, disulfides, maleimides	p.11
Azide	$-\stackrel{\ominus}{N}-\stackrel{\oplus}{N}=N$	alkyne groups, DBCO groups	p.15
Neutravidin, Streptavidin		biotinylated compounds or other biotinylated species	p.12
Poly-L-Lysine		activated carboxy groups, or electrostatic adsorption of negatively charged species	p.13



Epoxy Surfaces

for covalent coupling of N-terminal biochemical species

Epoxides are cyclic ethers with a highly strained three member ring. Epoxy rings can be easily reacted with nucleophiles e.g. amines, hydrazines, thiols, hydroxides and carboxyl groups. Compared to NHS-esters or 1,4-Phenylene isothiocyates (PDITC) the epoxy surface is more stable and has a longer shelf-life. Epoxy surfaces are stable up to temperatures of 40° C and are also more stable against humidity compared to NHS and PDITC-surfaces.

The nucleophilic addition is catalyzed by acid or basic conditions. Under acidic conditions, the oxygen in the ring is positively charged, which facilitates the nucleophilic attack. Under basic conditions the least substituted carbon is attacked by the applied nucleophile in a standard $S_{\rm N}2$ reaction.

Aldehyde Surfaces

for covalent coupling of N-terminal biochemical species

Aldehyde groups bind to Amines, Hydrazines and Aminoalkoxyacetyl modified biomolecules. In an intermediate state the Aldehydes form an instable Imine-group with Amines (Schiff-base). In order to increase the bond strength it is possible to reduce the Imines with NaCNBH₃ to form stable Amines.

Upon completion of the coupling reaction non-reacted aldehydes must be blocked with small molecules that penetrate the 3D-Matrix and effectively quench all remaining reactive groups.

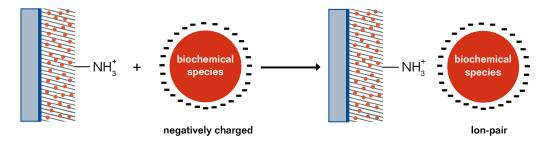






Amine Surfaces

for non-covalent coupling of negatively charged biochemical species via electrostatical adsorption



An adsorptive immobilization is a non-covalent coupling method on solid supports which is realized by electrostatic, van der Waals interactions, hydrogen bonds and hydrophobic interactions of the reactants, respectively. An electrostatic interaction is formed by an ion-ion-interaction between the surface and the applied biochemical species. The dissociation energy for typical electrostatic bond is 130 kJ/mol. It is about a third of the strength of an average covalent bond. In order to achieve an optimal adhesion the probe buffer and the adhesion conditions (pH-value) have to be optimized.

Binding of Oligonucleotides on Amino Surfaces via UV-Crosslinking

Thymidine

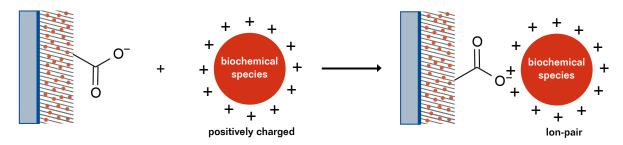
crosslinked Thymidine

The nucleic acid is bound electrostatically on the 3D-Amino surface with its negatively charged backbone or its 5'phosphate group. For immobilization of nulceic acids we recommend an UV-crosslinking after adsorption forming a covalent bond. During the UV irradiation the base Thymine formes radicals which undergoes a H-abstraction in the 3D-Matrix.



Carboxy Surfaces

for non-covalent coupling of positively charged biochemical species via electrostatical adsorption



An adsorptive immobilization is a non-covalent coupling method on solid supports which is realized by electrostatic, Van der Waals interactions, hydrogen bonds and hydrophobic interactions of the reactants, respectively. An electrostatic interaction is formed by an ion-ion-interaction between the surface and the applied biochemical species. The dissociation energy for typical electrostatic bond is 130 kJ/mol. It is about a third of the strength of an average covalent bond. In order to achieve an optimal adhesion the probe buffer and the adhesion conditions (pH-value) have to be optimized.

NHS Surfaces

for covalent coupling with the N-terminus of biochemical species

The NHS-ester reacts immediately with the NH₂-terminus of biochemical species to form a covalent bond with the surface (420 kJ/mol). The reaction of carboxyl groups with N-Hydroxy succinimide leads to highly reactive esters, which can be easily reacted with nucleophiles e.g. Amines, Hydrazines. However, due to its high reactivity the NHS-ester is susceptible against hydrolysis and is characterized by a relatively short shelf-life. All NHS-activated surfaces should therefore be processed quickly.

There are a number of different approaches to couple on the NHS surface:

- It is assumed that not all Carboxy groups have reacted to NHS-esters during activation.
 Thus a negatively charged carboxy surface still remains which in turn supports the physico-chemical adsorption of positively charged probes e.g. NH₃⁺. Hence a protonating media (pH < 5) for the biochemical species to get a positive charge is required.</p>
- A nucleophilic attack on the active ester is also catalyzed under basic conditions (pH > 8.5).
 After attachment of the biochemical species the surfaces must be blocked with a blocking buffer containing small molecules that can access all reactive groups within the 3D-Matrix.







Thiol Surfaces

for an oriented covalent coupling of thiolated biochemical species

This covalent coupling method is suitable for the oriented or orthogonal coupling of thiol modified probes or biochemical species.

Only thiol groups can be reacted with the double bond of the Maleimide active esters. Similar to a NHS-modification the esters that are formed are susceptible against hydrolysis. Thiolated probes or biochemical species can contain disulfides bridged dimers and must be reduced e.g. by using Dithiothreitol (DTT) or Cleland's Reagent for an optimal and effective surface coupling.

Maleimide Surfaces

for an oriented covalent coupling of thiolated biochemical species

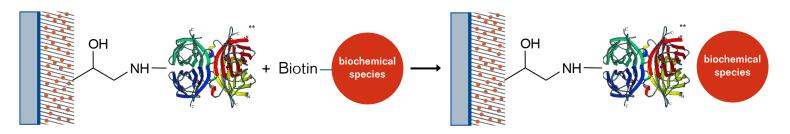
This covalent coupling method is suitable for the oriented or orthogonal coupling of thiol modified probes or biochemical species. Only thiol groups can be added on the double bond of the Maleimide active esters. Similar to the NHS-modification the formed esters are susceptible against hydrolysis. Thus, we recommend processing the slides immediately after opening the sealed bags. Thiolated probes or biochemical species containing disulfide bridged dimers must be reduced e. g. with Dithiothreitol (DTT) or Cleland's Reagent, for an optimal and effective surface coupling.



Avidin, Streptavidin and Neutravidin Surfaces

for non-covalent oriented coupling of Biotin modified biochemical species

Avidin is a glycoprotein comprised of four polypeptides that are connected with carbohydrates via glycosidic bonds. Avidin is a tetrameric protein which forms a highly specific binding site for Biotin. Neutravidin is a deglycosylated form of Avidin. The Avidin (Streptavidin/Neutravidin)-Biotin-bond is one of the strongest known, non-covalent bond in biology/biochemistry ($K_D = 10^{-15} \text{ mol/l*}$). The binding site for Biotin is formed by various amino acids. When using covalently attached Avidin, Streptavidin or Neutravidin the molecules are less susceptible for desorption in the presence of alkaline, acids, in solutions of high ionic strength or at high temperatures. Biotin affine proteins can be distinguished by their isoelectric point, specificity and nonspecific binding as illustrated in the following table.



	Avidin	Streptavidin	Neutravidin
Molecular Weight	67 kDa	53 kDa	60 kDa
Biotin-binding Sites	4	4	4
Isoelectric Point (pl)	10	6.8 – 7.5	6.3
Specificity	Low	High	Highest
Affinity for Biotin (K _D)	10 ⁻¹⁵ M	10 ⁻¹⁵ M	10 ⁻¹⁵ M
Nonspecific Binding	High	Low	Lowest

^{**} structure of streptavidin from http://relic.bio.anl.gov/relicPeptides.aspx







PDITC Surfaces

for covalent coupling of N-terminal biochemical species

The PDITC (1,4- Phenylendiisothiocyanate) is a homobifunctional linker, that immediately reacts with nucleophiles e.g. Amines, Hydrazines, Thiols and Hydroxides to form stable covalent bonds. After attachment of the biochemical species the surfaces must be blocked with a blocking buffer containing small molecules that can access all reactive groups within the 3D-Matrix.

Poly-L-Lysine Surfaces

A higher density of surface amines can be achieved with the Poly-L-Lysine which is covalently attached on 3D-surfaces. Slides covalently coated with Poly-L-Lysine can be used as Adhesive Microscope Slides for the electrostatic coupling of biomolecules or biological samples, e.g. DNA, cells, tissues.



2D-reactive Surfaces

For cost-sensitive applications PolyAn has developed a range of 2D (2-dimensional)-reactive glass slides that are manufactured from high quality glass with an ultra-flat surface and low inherent fluorescence. The glass is coated with a thin silane layer that will covalently bind most types of bio-molecules. The defect-free surface features uniform functional layers that provide a high covalent coupling efficiency together with a very low background. The slides are easy to use, and are fully compatible with all commercially available arraying and scanning instruments.

Besides standard glass slides and coverslips, PolyAn also offers the functionalization of metal and metaloxides, gold and silver substrates. Both, the density of the functional groups and the contact angle can be optimized for your application upon request.

2D-Carboxy 2D-NHS

2D-Amine 2D-PDITC







2D-Epoxy

2D-Azide

$$-\stackrel{\ominus}{N} - \stackrel{\oplus}{N} = \stackrel{}{N} + = - \xrightarrow{\text{biochemical species}} \longrightarrow \stackrel{\text{biochemical species}}{N = N}$$

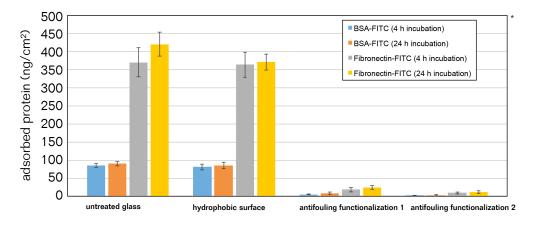
2D-Maleimide

2D-Thiol



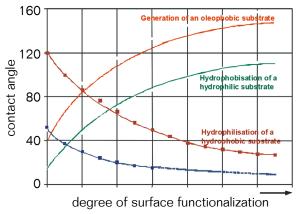
Antifouling Surfaces for Reduction of unspecific Binding

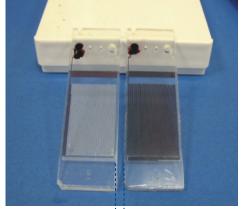
PolyAn offers antifouling coatings for a wide range of plastic consumables. Our proprietary coating reduces biofouling and also cell adsorption on nearly any synthetic surface. Products include cups, 96-well microtiter plates, microfluidic devices and a wide range of customized products.



PolyAn's antifouling coating is covalently anchored on the base substrate. The surface modification is permanent. The autofluorescence and mechanical characteristics of the base substrate are not influenced by PolyAn's surface modification.

Increasing Wettability of Microfluidics





Retarded flow velocity of ink in non modified channels

Enhanced flow velocity of ink in 3D hydrophilised channels

^{*} Data generated in collaboration with FU Berlin

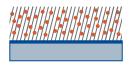






Multipart plates and COP films to facilitate production processes

PolyAn's multipart plates are comprised of a functionalized glass plate (75 x 110 mm) which can combined with a superstructure after the printing process. This approach increases the printing throughput while minimizing errors due to electrostatics or geometry.



+

Substrates:

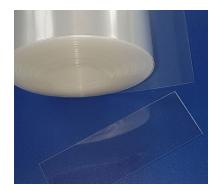
standard 1 mm glass, coverslip glass, PMMA

Surfaces:

2D-Epoxy, 3D-Epoxy, 3D-NHS, ...



96-well and 384-well superstructures available



Pre-scored sheets for cartridges & microfluidics

Functionalized Cyclo Olefin Polymer (COP) films with low autofluorescence that can be easily cut into suitable formats post printing. COP is characterized by a low autofluorescence. The finished film-chip can be easily integrated into cartridges or microfluidic devices.

Surfaces:

3D-Epoxy, 3D-NHS, 3D-Amino, 3D-Aldehyde, \dots



Our service: Individual surface functionalization solutions

As part of our Molecular Surface Engineering Services, we offer the individual functionalization of substrates for specific requirements.

Functional surfaces

- 2D- / 3D-reactive surfaces
- Biomolecule coatings
- Adsorptive surfaces
- Antifouling surfaces
- Low Cell Adhesion
- Hydrophilic surfaces



Supports



Glass slides, coverslips Various thicknesses and dimensions possible

Plastic support materials, e.g. PE, PP, PES, PS, PVDF, PMMA, COC and COP



Plates, Cartridges



Coating with metal and metal oxides, e.g. gold, silver platinium

e.g. gold, silver, platinium, palladium, chromium, ...

Production

Transfer from sample size to production scale

Outsourcing of production



Custom product development is the cornerstone capability from which PolyAn's family of products evolved. PolyAn has developed a broad repertoire of manufacturing capabilities that meet customer specifications with regards to tolerances, bio-compatibility, and assay conditions. Our scientists partner with our customers to rapidly build prototypes that enable scaled development and manufacturing.

As a development partner, PolyAn facilitates efficiencies and innovation to maximize your capacities in research and analysis rather than in development and manufacturing. Let us know what you and your company are exploring and we can support you in making that a reality.







PolyAn silanized Microarray Glass Slides

Surface modification	Product ID
2D-Amino	104 00 021
2D-Carboxy	104 00 121
2D-Epoxy	104 00 221
2D-Aldehyde	104 00 321
2D-activated Amino (PDITC)	104 00 421
2D-Thiol	104 00 521
2D-Azide	104 00 621

All glass slides have the standard dimension of 25.0 mm x 75.6 mm with a thickness of 1 mm. Our slides are available in boxes of 5 and 25 slides, respectively. Other functionalities and sizes are available upon request.

PolyAn MSE-functionalized Glass Slides

Surface modification	Product ID
3D-Amino	104 00 001
3D-Epoxy	104 00 201
3D-Aldehyde	104 00 301
3D-Carboxy	104 00 101
3D-NHS	104 00 401
3D-NHS (hydrophilic)	104 00 402
3D-activated Amino (PDITC)	104 00 431
3D-Maleimide	104 00 441
3D-Thiol	104 00 501
Covalently coated Poly-L-Lysine	104 01 201
Covalently coated Streptavidin	104 02 205
Covalently coated Neutravidin	104 03 205
Covalently coated Avidin	104 04 205

All glass slides have the standard dimension of 25.0 mm x 75.6 mm with a thickness of 1mm. Our slides are available in boxes of 5 and 25 slides, respectively. Other functionalities and sizes are available upon request.

PolyAn is also the European distributor of **Grace Bio-Labs**. Please do not hesitate to contact us, if you are interested in **Nitrocellulose Film Slides** or the ProPlate[™] and FlexWell[™] slide handling tools.



PolyAn MSE 3D-functionalized Polymer Slides

Surface modification	Product ID
3D-Amino	104 00 051
3D-Epoxy	104 00 251
3D-Aldehyde	104 00 351
3D-Carboxy	104 00 151
3D-NHS	104 00 451
3D-activated Amino (PDITC)	104 00 481
3D-Maleimide	104 01 441
3D-Thiol	104 00 551
Covalently coated Poly-L-Lysine	104 01 251
Covalently coated Streptavidin	104 02 255
Covalently coated Neutravidin	104 03 255
Covalently coated Avidin	104 04 255

All microarray slides have the standard dimension of 25 x 75 x 1 mm. Our slides are available in boxes of 5 and 25 slides, respectively. Other functionalities and formats are available upon request.

PolyAn also offers functionalization of 100 μm and 188 μm COP films (Cycloolefin Polymer or Copolymer) as pre-scored sheet material, e.g. for integration in microfluidic devices.

PolyAn functionalized 96-well Plates for Microarrays

Surface modification	Product ID
3D-Epoxy	00 690 251
3D-NHS	00 690 451
Streptavidin	00 692 251
Neutravidin	00 693 251
3D-Azide	00 690 601

Standard plates for microarray applications are transparent 12×8 strip flat bottom 96-well plates. All functionalized 96-well plates are available in the dimensions $85 \times 128 \times 14$ mm. PolyAn can equip most 96-well plate types with our 3D-reactive matrices. This includes plates comprised of Polystyrene (white or transparent) and Polypropylene.

PolyAn's multipart plates are comprised of a functionalized glass or PMMA sheet (74 x 110 mm) onto which a 96-well superstructure is mounted after the printing process. All of the 96-well and 384-well ProPlate designs are available for this product.

Please do not hesitate to contact us, so that we can offer you a format that is optimally tailored to your application and microarray printing facility.







PolyAn functionalized Coverslips

Surface modification	Product ID
2D-Amino	104 00 026
2D-Epoxy	104 00 226
2D-Aldehyde	104 00 326
2D-Thiol	104 00 526
3D-Azide	104 00 626
3D-Amino	104 00 006
3D-Epoxy	104 00 206
3D-NHS	104 00 407
3D-Maleimide	104 00 446
Streptavidin	104 02 206

All coverslips have the standard dimension of 25×60 mm. Type #1.5 is used as a standard thickness. All coverslips are packed in boxes of 5.

Other functionalities and formats are available upon request. PolyAn also offers functionalized substrates that are coated with gold or other noble metals as well as waveguide materials.

PolyAn Buffers & Solutions

PolyAn provides washing and blocking buffers that are optimized for PolyAn's 2D- and 3D-reactive surfaces. The PolyAn buffers promotes highly efficient coupling of biomolecules and increases the signal/noise ratio by minimizing unspecific binding.



Buffer / Solution	used for	Ingredients	Product-ID
PolyAn Blocking A	surface passivation of NHS, Epoxy, Aldehyde and PDITC modifications	anionic surfactants, Amines, pH=9.0	000 02 511
PolyAn Blocking B	surface passivation of Strepta- vidin, Amines, PDITC modifica- tions	proteins, surfactants	000 02 611
Wash solution I + II (suited for DNA microarrays	for an optimal wetting and reducing of non specific interactions		000 02 701
Wash solution III (suited for DNA microarrays)	for an optimal wetting and reducing of non specific interactions	lower concentrated salts	000 02 721



Quality Management

PolyAn pursues a policy of continued technical excellence to deliver high quality products and services. Our company is dedicated to product consistency and reliability – providing our customers with highly reproducible consumables for their specific applications.

To ensure this PolyAn has successfully implemented the DIN EN ISO 9001 quality management system for all processes. PolyAn's production facilities also include a class 5 cleanroom.



How to place an Order

We are looking forward to your telephone orders and technical enquiries at our Customer Service and Technical Service Department Monday-Friday. Office hours for telephone enquiries are 9:00 AM to 6:00 PM (Central European Time). Please mention billing and shipping addresses, product-ID, quantity, your phone number or e-mail and name.

Contact Tel +49 (0)30 912078-0

Fax +49 (0)30 912078-11 Email mail@poly-an.de

Terms & conditions PolyAn's general terms & conditions apply.

Ordering process After placing your order you should receive an order

acknowledgement via e-mail within 3 business days. When your slides have been shipped, we will notify you via e-mail to provide you with the shipping information,

e.g. tracking number.

Minimum quantity The slides are packaged in boxes of 5 or 25 slides, which

is the minimum quantity. Discounts are available for large

order volumes.

Payment terms The full price is payable within 14 days after the date of

the invoice.

Shipping and handling All prices are Ex-Works PolyAn, Berlin.

The slides will be shipped via FedEx, UPS, TNT, DHL or airmail.







Distributors

USA, Canada, Mexico AutoMate Scientific, Inc. (USA)

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China APG Bio, LTD

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