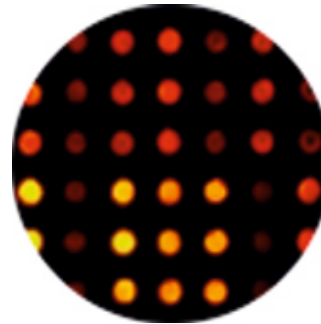
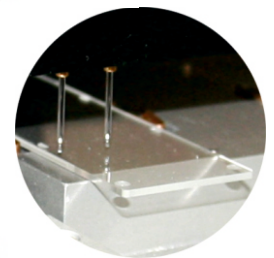
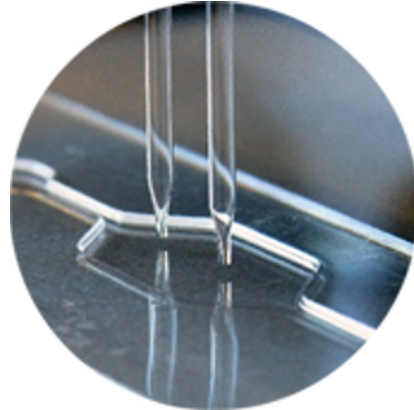


sciCONSUMABLES



sciPOLY3D Kit

- ➔ direct immobilization of biomolecules without functional groups
- ➔ easy to apply on all common plastic substrates (COP, PMMA, COC, PP, PS, etc.)
- ➔ suitable for multiplex tests on microfluidic devices, slides, MTPs
- ➔ robust hydrogel matrix enables PCR and melting curve applications
- ➔ cost-efficient and less time-consuming compared to state-of-the-art functionalization
- ➔ convenient and easy to use

sciPOLY3D . . . Our solution for printing on unmodified polymers



sciPOLY3D Kit

Product Description

One major task for the design of microarray based tests is the decision for a platform and substrate material, e.g. polymer microfluidic cartridges, microwell plates, slides or membranes. This choice usually is constrained by the immobilization chemistry. With the sciPOLY3D product line all polymers can be furnished with biomolecule microarrays without pre-treatment thereof. The whole process of microarray production is reduced to printing and an additional few minutes for irradiation, which can easily be integrated in a high throughput production line.

●● sciPOLY3D

- Water-soluble and is simply added to the printing media
- No need for functional groups at the biomolecule
- Surface substrates do not need pretreatment
- Use of non-fouling surfaces
- Eliminates all wet chemistry steps in the process
- Facilitates especially the biofunctionalization of structured substrates, such as microfluidic chips and on substrates that are not suitable for adsorptive immobilization
- Enables covalent immobilization on protein-repellent surfaces to make blocking obsolete

●● sciCHIP COP

- Standard size (75.5 x 25.0 x 1.0 mm)
- Excellent slide homogeneity and superior slide-to-slide reproducibility
- Low background fluorescence
- Compatible with commonly used hybridization chambers*
- Barcode label and identification number optional

●● sciPOLY3D buffers

- Ultra pure reagents used for buffer formulation
- Provides uniform and highly regular spots
- Optimized for DNA and protein applications

Applications

- Microfluidics
- PCR applications
- Isothermal Amplifications
- Immunoassays

Features & Benefits

- No expensive and time-consuming surface functionalization necessary
- Applicable on all kinds of unmodified polymer substrates
- Suitable for non-fouling surfaces
- High immobilization efficiencies of biomolecules (DNA, proteins, glycans) without functional group
- Only process step besides printing: short (~2 min) UV irradiation
- Stable due to covalent network attachment
- Compatible with commonly used fluorescence and colorimetric scanners*
- Optimized for non-contact arraying using sciFLEXARRAYER technology

Related Products

- sciFLEXARRAYER
- sciREADER CL2

Services & Support

- Contract assay development
- Contract microarray printing service
- Hotline and online support

Order Information

Product	Size	Cat. No.
sciPOLY3D SOLID	10 mg	CP-5802-10
sciPOLY3D SOLID	100 mg	CP-5802-100
sciPOLY3D LIQUID	0.5 mL	CP-5803-0.5
sciPOLY3D SOL1	5 mL	CP-5804-5
sciPOLY3D SOL1	50 mL	CP-5804-50
sciPOLY3D SOL2D1	1 mL; 2x conc.	CP-5805-1
sciPOLY3D SOL2D1	100 mL; 2x conc.	CP-5805-100
sciPOLY3D SOL2P1	1 mL; 2x conc.	CP-5806-1
sciPOLY3D SOL2P1	100 mL; 2x conc.	CP-5806-100
sciPOLY3D DNA Starter Kit	sciPOLY3D LIQUID + sciPOLY3D SOL2D1 + sciCHIP COP	CP-5808
sciPOLY3D PROTEIN Starter Kit	sciPOLY3D LIQUID + sciPOLY3D SOL2P1 + sciCHIP COP	CP-5807
sciCHIP COP	5 slides	CSP-5312-5

*for advices and recommendations please contact support@scienion.de



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