

ONCYTE® Film Slides

Film Slides optimized for low fluorescence background

Product Description

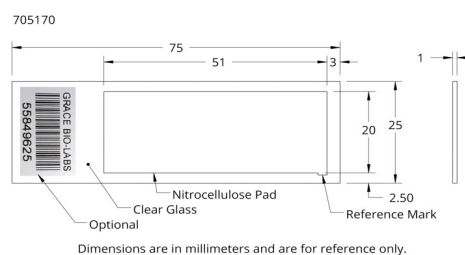
Name : ONCYTE® Film Slides

Catalog Number : FP-KV9290, 20 units

Specifications : The film surface is flat with round pores approximately **0.1µm** diameter. Films are less than 20µm thick, and bound to a standard **25mm x 75 mm glass** (or plastic) microscope slide. The center-to-center spacing of ONCYTE® multi-films matches that of 96 and 384 well microtiter plate format. Multi-films can be processed using the ProPlate® multiarray system.

Storage : ONCYTE® film slides are specially packaged in boxes with minimal off-gassing. It is advised to store the film slides at room temperature in the original packaging at all times before and after printing. Storage of film slides in other slide boxes may compromise results and is not recommended. Many researchers store their arrayed ONCYTE® film slides at 4°C or -20°C, and these conditions will not harm the slides or results. As a starting point, it is recommended that ONCYTE® Film Slides be stored overnight at 4°C after printing in order to maximize the binding of the immobilized protein before use.

Note: It is not recommended to store printed or unprinted slides with desiccant as this may negatively impact microarray results.



Introduction

ONCYTE® porous nitrocellulose (PNC) slides are the optimal high binding protein microarray substrate technology available. The three dimensional microporous film cast on a variety of solid surfaces (vis. glass, plastic, gold, tantalum) is comprised of a nitrocellulose polymer and proprietary chemistry that retains stable protein quaternary conformations providing ideal microarray substrate for a variety of applications. ONCYTE® film provides the best surface when performing reverse phase protein arrays (RPPA), antibody arrays, antigen or peptide arrays whether using colorimetric, fluorescent or near infra-red detection systems.

Description

A method has been developed to cast polymeric nitrocellulose onto glass microscope slides to make a film-based product designed specifically for tissue processing and cytochemistry. The chemical bond linking film to glass is stable to temperature/solvent/pH conditions of all cytochemical assays including PCR and is autoclavable. A combination of nitrocellulose polymer and proprietary chemistry is resistant to standard Reblot™ and antigen retrieval protocols, while maximizing protein binding and stability. The film surface is flat with round pores approximately 0.1µm diameter and is amenable to automated printing with contact or non-contact devices. Films are

FT-KV9290

less than 20µm thick with an open internal pore structure and are compatible with virtually all detection systems, including fluorescent, chemiluminescent, radiographic and colorimetric. In addition, films have negligible autofluorescence and can be cleared to transparency for high resolution imaging.

ONCYTE® film slides are compatible with a variety of counterstains including Mayer's hematoxylin, nuclear fast red and light green SF. Gill's hematoxylin is recommended (0.05% HCl may be used to de-stain). Eosin (0.5% diluted in isopropanol). In some cases counterstains may bind to the film, this usually does not interfere with the microscopic examination of specimens. Film slides are made transparent for microscopic and imaging applications by xylenes or immersion oil with a refractive index of 1.515. For aqueous mounting, Fluoro-Gel mounting medium with Phenylenediamine is recommended.

Applications

- Ideally suited for use in most cytochemistry assay protocols including ICC, ISH, ISPCR and HTS
- Optimal for infectious disease immunogen discovery
- Film slides provide superior specimen adherence, outperforming silane and protein treated glass slides
- Increases sensitivity of frozen section immunocytochemistry and for printing soft tissues
- Specimens may be applied to a film slide by any conventional method including centrifugation, cryostat mounting, tissue printing pipetting, and array depositors
- Specimens may be chemically fixed using aqueous fixatives or compatible alcohols
- Soluble analyte may be bound to film slides by air drying, UW crosslinking, baking or microwaving
- Slides are chemically resistant to reagents typically used in most assays for cell analysis including 50% formamide
- Film slides are not recommended for use with acetone, ethanol and methanol. Isopropanol and butanol are common substitutes

Technical and scientific information

References

- **Henkel S. *et al.*** "Epitope Mapping Using Peptide Microarray in Autoantibody Profiling." *Methods in Molecular Biology* (Clifton, N.J.)1368 (2016): 209-24.
- **Yentrapalli R. *et al.*** "Quantitative and Integrated Proteome and MicroRNA Analysis of Endothelial Replicative Senescence." *Journal of Proteomics* 126 (2015): 12-23.
- **Wolfe A. *et al.*** "Simvastatin Prevents Triple-negative Breast Cancer Metastasis in Pre-clinical Models through Regulation of FOXO3a." *Breast Cancer Research and Treatment* 154, no. 3 (2015): 495-508.

Related Product

Fluoro-Gel mounting medium with Phenylenediamine, FP-DW5310

Regulatory information

ONCYTE® is a registered brand from Grace Bio-Labs

Ordering information

Catalog size quantities and prices may be found at <http://www.interchim.com>.
Please inquire for higher quantities (availability, shipment conditions).

For any information, please ask : FluoProbes® / Interchim; Hotline : +33(0)4 70 03 73 06

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