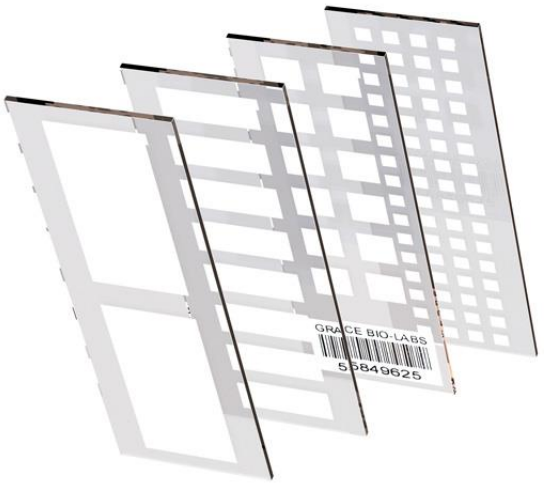
GRACE BIO-LABS

| Product Offering |

ONCYTE® Film Slides

Porous nitrocellulose (PNC) film slides are the premier high binding protein microarray substrate technology. The 3-D microporous film has an open pore structure (approximately 0.1um diameter), a flat surface, and is amenable to automated printing with contact or non-contact devices. The film can be cast on a variety of solid surfaces (glass, plastic, metallic), is comprised of a nitrocellulose polymer and a proprietary chemistry that retains stable protein tertiary conformations, all of which synergize to make it an ideal substrate for all types of microarray technologies including biomarker discovery, detection, and validation as well as for protein analysis.



APPLICATION

Typical assays include but are not limited to

- Antigen or antibody capture
- Cell or tissue lysate binding
- Glycoprotein and peptide binding

DETECTION

Compatible with virtually all detection systems, including fluorescent, chemiluminescent, radiographic and colorimetric.

MATERIAL

The film coating is porous nitrocellulose on plain clear glass. Pore size and thickness are adjusted across the ONCYTE product range to offer optimal solutions for all protein microarray applications.

KEY FEATURES

- Compatible with fluorescence based detection systems
- Unsurpassed signal-to-noise ratios
- Consistently low auto-fluorescence
- High and uniform protein binding capacity, CVs < 15%
- Surface thickness uniformity ± 1um
- Film chemistry resistant to standard reblot™ and antigen retrieval protocols!
- Low limit of detection
- Low hydrophobicity

GRACEBIO.COM

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STANDARD PRODUCTS OVERVIEW

Grace Bio-Labs offers three families of ONCYTE® standard products; AVID™, NOVA™, and SuperNOVA™. The applications each family was developed for and the highlights of their properties are summarized in Table 1.

Table 1: ONCYTE® Standard Product Offering

Property	ONCYTE® Brand Porous Nitrocellulose Thin Film Slides		
	AVID™	**NOVA™**	**SuperNOVA™**
Preferred Detection Methods[1]	Colorimetric Chemiluminescence	Fluorescence	Fluorescence
Film Thickness	12µm	7µm	12µm
Dynamic Range (log scale florescence)	5-6	5-6	7+
Binding Capacity (comparative)	∘∘∘∘∘∘∘∘	∘∘∘∘	∘∘∘∘∘∘∘∘
Hydrophobicity[2] (comparative) (may affect spot size)	∘∘∘∘	∘∘∘∘	∘∘∘∘∘∘∘∘
Applications	Antigen or antibody binding, cell or tissue lysate binding, glycoprotein and peptide binding assays	Antigen or antibody binding, glycoprotein and peptide binding assays	Antigen or antibody binding, cell or tissue lysate binding, glycoprotein and peptide binding assays

1. All detection methods are compatible with ONCYTE® film slides
2. More hydrophobic surfaces may result in reduced spot diameter, depending on the spotting buffer composition. Results may vary based on buffers, sample preparation, spotting, and scanning instruments.

STANDARD PRODUCT DETAILS

Dimensions

The dimensions provided on GRACEBIO.COM are nominal and are for reference only. For applications that require precise dimensions and tolerances, inquire with Grace Bio-Labs using the "Contact a Scientist" feature on GRACEBIO.COM.

Barcode Options

Available products and their corresponding barcode options are summarized in Table 2.

Standard Product Packaging

25mm x 75mm Slides: 20 per pack
74mm x 110mm Slides: 1 per pack

Certificate of Analysis

Certificates of analysis may be requested at the time of order placement.

CUSTOM PRODUCTS

Grace Bio-Labs can develop custom products to meet specific end-user requirements. Possible customizations include developing: 1) slide/pad configurations according to customer requirements and 2) variations of nitrocellulose film pore size, pore shape, pore density, and void volume to influence protein capture and detection sensitivities.

Inquire about customized products by using the "Custom Product Design" feature available on GRACEBIO.COM.

BARCODE OPTIONS

The below table shows the barcode options available for the ONCYTE® film slide product family.

Table 2. Barcode Options for ONCYTE® Film Slides

Part Number*	Number of Pads	Pad Size (mm)	Barcode Option 1** Code 128 Format 20mm x 2.5mm 	Barcode Option 2** Code 128 Format 20mm x 8.5mm 	Barcode Option 3** CODABAR Format 22 x 14mm 
xxx170	1	20 x 51	Yes	Yes	Yes
xxx177	1	20 x 60	Yes	Yes	No
xxx278	1	21 x 71	No	No	No
xxx101	1	15 x 69	Yes	No	No
xxx102	2	15 x 32	Yes	No	No
xxx002	2	20 x 20	Yes	Yes	Yes
xxx103	3	20 x 20	Yes	No	No
xxx003	3	16 x 18	Yes	No	No
xxx004	4	15 x 15	Yes	No	No
xxx008	8	6 x 6	Yes	Yes	Yes
xxx108	8	6 x 15	Yes	No	No
xxx118	8	6 X 20	Yes	No	No
xxx012	12	6 x 6	Yes	Yes	Yes
xxx016	16	6 x 6	Yes	No	No
xxx116	16	6.5 x 6.5	Yes	No	No
xxx024	24	5 x 6	Yes	No	No
xxx064	64	2.5 x 2.5	No	No	No
xxx196	96	6 x 6	No	No	No
xxx096	96	6 Diameter	No	No	No
xxx384	384	2.5 x 2.5	No	No	No

* Replace xxx with 305 for AVID, with 505 for NOVA, and with 705 for SuperNova

**Barcode images are not shown to scale and barcode numbers are provided for illustrative purposes.