

# Pall Nylon Membranes from PerkinElmer



Every NEN<sup>®</sup> brand GeneScreen<sup>™</sup>, GeneScreen Plus<sup>®</sup>, and Colony/Plaque Screen<sup>™</sup> membrane from PerkinElmer is manufactured by Pall Corporation, the acknowledged leader in nylon membranes.

Whether you need positively charged or neutral membranes, in sheets, rolls, discs, or custom cuts, PerkinElmer gives you the assurance of Pall quality and absolute consistency from piece to piece, and from order to order.

**Consistency is the hallmark of Pall's manufacturing, so every GeneScreen, GeneScreen Plus, and Colony/Plaque Screen membrane is pure white and perfectly smooth, with uniform pore sizes.**

- Rugged, flexible, and easy to handle: no cracking or tearing
- No guessing which side is "up," because both sides are the same
- Instant and complete wetting, so every site is evenly prepared
- Have confidence in your molecular weight determinations: these membranes won't shrink, distort, or curl
- No risk of fire during baking (unlike flammable nitrocellulose membranes)

**GeneScreen Plus Charged Nylon Membranes: Best choice for radiometric techniques**

- Highest sensitivity for radiometric detection in nucleic acid hybridization
- Excellent sensitivity for nylon DNA arrays
- High affinity for RNA: 500% greater retention than nitrocellulose

- Binds DNA of all sizes, from oligonucleotides to fragments >23 kb
- Positive charge creates a very strong bond: no need to fix nucleic acids to the membrane
- High bond strength increases the number of reprobes possible
- Bond strength and uniform pore size (0.45  $\mu$ M) also improves resolution by minimizing diffusion during transfer

**Colony/Plaque Screen Charged Nylon Membrane Discs:**

**Best choice for use in colony/plaque lifts with radiometric systems**

Colony/Plaque Screen Charged Nylon Membranes are discs of GeneScreen Plus membrane, precut for use in plaque hybridization protocols and bacterial colony screenings, with radiometric techniques. They are available with or without orientation holes and lift tabs for precise alignment and ease of removal, and offer all the benefits of GeneScreen Plus, including famous Pall quality.

### GeneScreen Neutral Nylon Membranes:

Best choice for chemiluminescent and chromogenic techniques

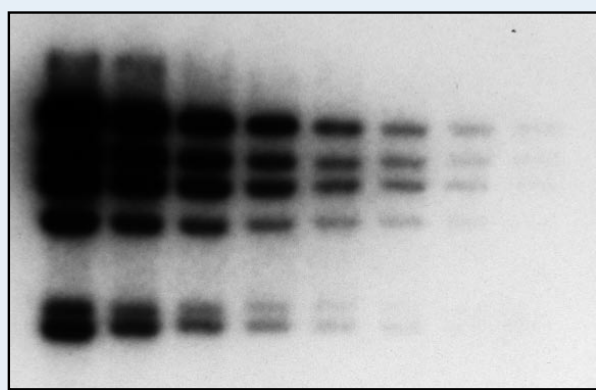
- Lower background in chemiluminescent and chromogenic systems
- Crosslinking occurs quickly—only two minutes of UV irradiation required

### Membrane Discs:

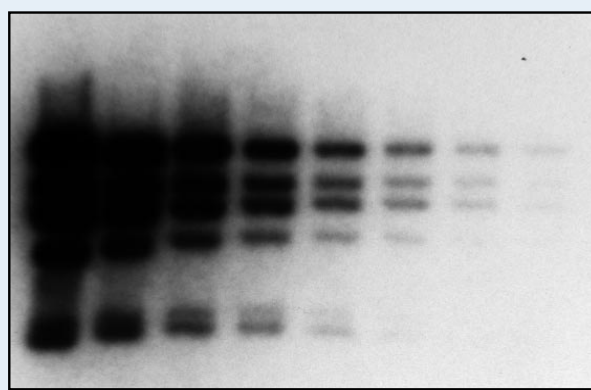
Best choice for use in colony/plaque lifts with nonradiometric systems

Colony/Plaque Screen Neutral Nylon Membranes are discs of GeneScreen membrane, precut for use in plaque hybridization protocols and bacterial colony screenings, with chemiluminescent or chromogenic techniques. They offer all the benefits of GeneScreen membranes, including famous Pall quality.

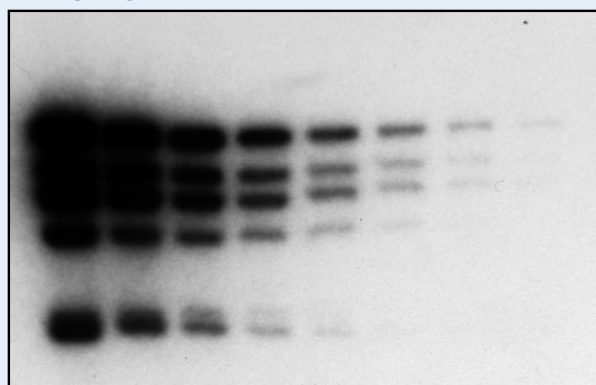
#### GeneScreen Plus



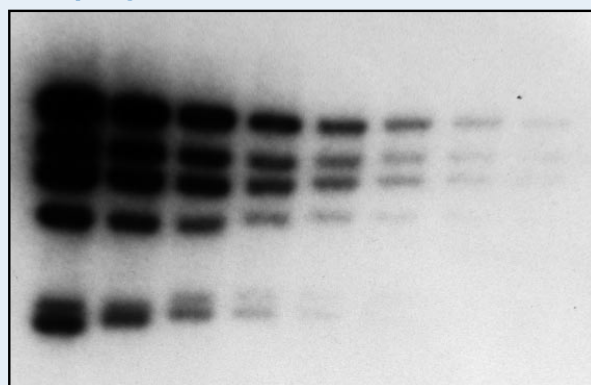
#### GeneScreen



#### Company A



#### Company A



#### Comparison of GeneScreen Plus from PerkinElmer and Company A's charged nylon membrane.

Two-fold serial dilutions of *Lambda HindIII* digest were electrophoresed, then capillary blotted onto the membranes. Blots were UV crosslinked and hybridized with  $^{32}\text{P}$ -labeled *Lambda HindIII*, according to Company A's protocol followed by a 4-hour film exposure at  $-70\text{ }^\circ\text{C}$  using KODAK BioMax<sup>®</sup> MS film and BioMax TranScreen<sup>™</sup> HE intensifying screen.

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**Also Available from PerkinElmer:  
Improved PolyScreen® PVDF Transfer  
Membrane is the Best Choice for  
Western Blots**

For information on our new and improved PolyScreen polyvinylidene difluoride (PVDF) transfer membranes, contact your local sales representative.

**Colony/Plaque Screen Membrane Discs**

— for Perfect Lifts

- Withstand rough treatment: won't shrink, crack or tear
- Precise alignment using convenient orientation holes
- Easy, tear-resistant removal with nylon lift tabs
- Complete lifts: the discs fit right to the edge of the plate



**GeneScreen Plus and Colony/Plaque Screen Charged Hybridization Transfer Membranes**

Catalog Number	Quantity/Package	Size
NEF976	5	30 x 45 cm sheets
NEF986	10	20 x 20 cm sheets
NEF987	10	22 x 22 cm sheets
NEF993	20	6.4 x 22.8 cm sheets
NEF994	20	8.5 x 12.4 cm sheets
NEF988	1	30 cm x 3 m roll
NEF978	50	82 mm diameter discs
NEF978A	50	137 mm diameter discs
NEF978X	50	82 mm diameter discs with lift tabs and orientation holes
NEF978Y	50	137 mm diameter discs with lift tabs and orientation holes
NEF990A	50	132 mm diameter discs
NEF1017	1	20 cm x 3 m roll

**GeneScreen Plus NR Hybridization Transfer Membranes**

Catalog Number	Quantity/Package	Size
NEF1016	1	30 cm x 30 m roll

**GeneScreen and Colony/Plaque Screen neutral Hybridization Transfer Membranes**

Catalog Number	Quantity/Package	Size
NEF972	5	30 x 45 cm sheets
NEF984	10	20 x 20 cm sheets
NEF985	10	22 x 22 cm sheets
NEF983	1	30 cm x 3 m roll
NEF1010	50	82 mm diameter discs
NEF1012	50	137 mm diameter discs
NEF1013	50	132 mm diameter discs
NEF1014	50	87 mm diameter discs
NEF1018	1	20 cm x 3 m roll

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