Laboratory

www.pall.com/lab

AcroPrep™ Advance 96-Well Long Tip Filter Plate for Nucleic Acid Binding

Description

The Pall AcroPrep Advance 96-well Long Tip Filter Plate for Nucleic Acid Binding (Pall NAB plate) incorporates a silica-based quartz glass fiber media to allow for efficient binding of DNA and RNA, while providing smooth flow and rapid processing of samples. This media offers researchers the flexibility to purify plasmid DNA from bacteria, and genomic DNA or total RNA from cell culture samples: a single plate for multiple applications. Reducing the chance of cross contamination is critical for reproducible quality results. Pall's new long tip plate minimizes hanging drop formation thus reducing the possibility of cross contamination. The Pall NAB plate is a multipurpose plate providing flexibility in applications, reduced risk of cross contamination and smooth flow for sample processing.

Maximum yields and quality of nucleic acid purification

- New outlet tip geometry provides direct flow of samples into receiver plate without concerns of cross contamination
- Silica-based quartz glass fiber media that allows efficient binding of DNA and RNA, while providing smooth flow and rapid processing of samples
- Manufactured in accordance with specifications for the Society of Biomolecular Screening (ANSI/SBS x-2004) for multi-well plates allowing entire DNA purification process to be performed on automated equipment

Applications

Plasmid DNA purification

- Restriction digestion
- Cloning
- Sanger sequencing

Genomic Purification

- PCR
- Real-time PCR
- Next Generation Sequencing (NGS)

Total RNA Purification

- Real-time quantitative PCR
- Microarrays
- cDNA library construction
- Northern blot analysis

Specifications

Materials of Construction
Filter Media: Silica-based quartz glass fiber
Housing: Polypropylene

Effective Filtration Area
0.25 cm^2

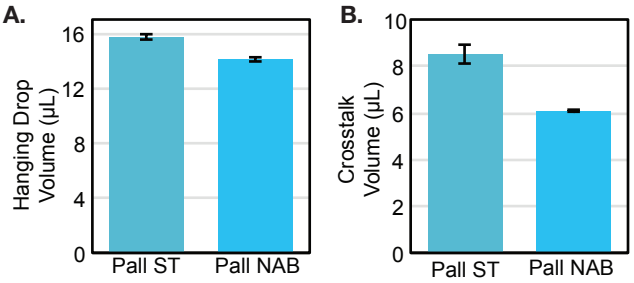
Sample Volume Range
50 uL – 900 µL

Recommended Operating Vacuum
> 25.4 cm Hg (10 in. Hg)

Recommended Positive Pressure
> 5 psi (start at 5 psi and increase in 2 psi increments until flow is achieved in a timely manner)*
**Pall does not recommend a maximum pressure*

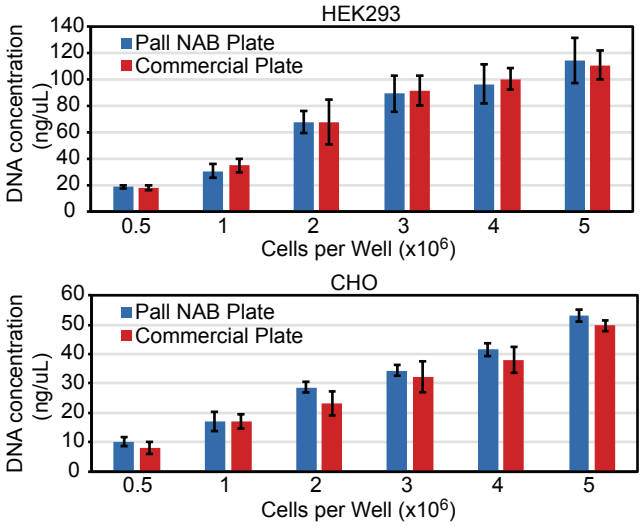
Performance

Figure 1
Pall NAB plate with redesigned outlet tips reduce well-to-well crosstalk by minimizing the formation of hanging drops



Hanging-drop (A) and crosstalk (B) volumes for the Pall NAB plate and Pall's previous generation plasmid DNA purification plate (Pall ST: PN 8132). For hanging-drop volume, the total hanging drop volume was determined for three plates, and the average volume/well calculated. For crosstalk volume, the data represents the average of 216 data points.

Figure 2
Genomic DNA Isolation from freshly harvested HEK293 and CHO cells compared to competitive commercial product



Efficiency and reproducibility of genomic DNA isolation from freshly harvested HEK293 and CHO cells (top and bottom panels, respectively) are very similar for the Pall NAB plate (blue bars) and the commercial plate (red bars). Bars indicate an average of 8 samples. Error bars indicate standard deviation.

Ordering Information

AcroPrep Advance 96-Well Long Tip Filter Plate for Nucleic Acid Binding

Part Number	Description	Pkg
8133	Long Tip Filter Plate for Nucleic Acid Binding	5/pkg

Accessories and Replacement Parts

5017	Multi-well Plate Vacuum Manifold	1/pkg
5225	Adapter Collar for Centrifugation	2/pkg
5226	Adapter for PCR Receiver Plate	2/pkg
5230	Cap Mat for Incubation	5/pkg
8001	AcroPrep Advance Multi-well Plate Lids	10/pkg

Related Products

AcroPrep Advance 96-Well Filter Plates Omega MWCO
AcroPrep Advance MWCO 96-well filter plates are used to concentrate the nucleic acid of interest if pooling multiple fractions before running downstream analytic

Part Number	Description	Pkg
8163	1 mL, Omega 3K MWCO	5/pkg
8164	1 mL, Omega 10K MWCO	5/pkg
8165	1 mL, Omega 30K MWCO	5/pkg
8166	1 mL, Omega 100K MWCO	5/pkg

PALL Laboratory

Corporate Headquarters
25 Harbor Park Drive
Port Washington, New York 11050

Filtration. Separation. Solution.SM

Visit us on the Web at www.pall.com/lab
E-mail us at LabCustomerSupport@pall.com

11/16, PDF, GN16.1027