

# Purexa™ MCP

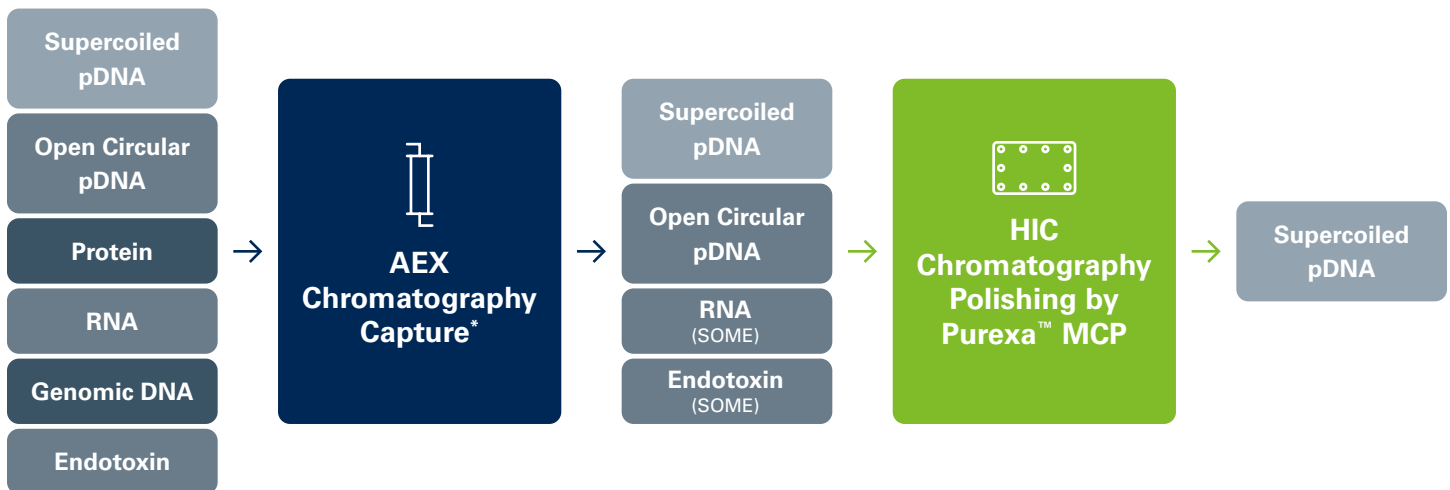
## for Supercoiled pDNA Polishing



Purexa™ MCP is the first commercially available membrane chromatography product for the polishing of supercoiled pDNA. It offers up to 10x productivity compared to traditional resins.

### How Purexa™ MCP Works

Purexa™ MCP is the cornerstone of our pDNA purification offering and is able to successfully separate supercoiled pDNA from impurities such as open circular pDNA. Utilizing hydrophobic interactions, our porous membranes are functionalized for better purification.



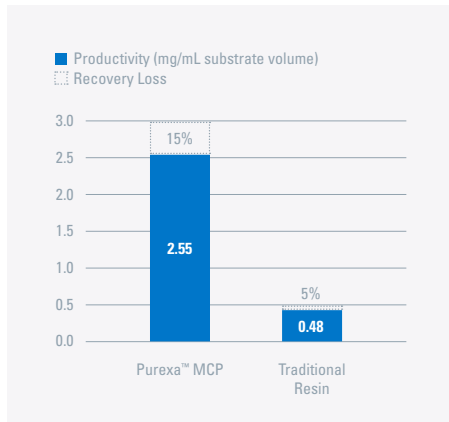
**Figure 1.** The plasmid DNA purification process using Purexa™ MCP.

\*Purexa™ MCP is recommended following our Purexa™ NAEX product as the capture step for pDNA.

# Superior productivity: up to 10x with Purexa™ MCP

- + Higher dynamic binding capacity
- + Faster cycle times
- + Consistent performance through linear scale up
- + And easier setup and breakdown

## Higher binding capacity with similar recovery...



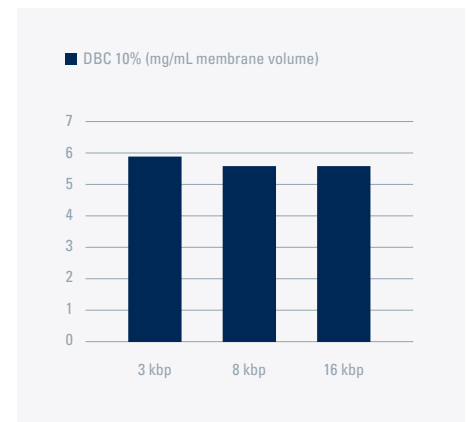
**Figure 2.** The 85% recovery in eluate is comparable to resin products.

## ... with up to 20x faster flow rates...



**Figure 3.** Purexa™ MCP is able to function at 22 times faster flow rates compared to tradition resin products with 10 times higher binding capacity.

## ... and consistent performance across multiple pDNA sizes.



**Figure 4.** In pDNA purification with Purexa™ MCP, dynamic binding capacity (DBC) is not inhibited by base pair size at a flow rate of 40 CV/mL without any clogging or pressure issues.

## Various Form Factors & Volumes

Purilogs, a Donaldson brand, offers a broad portfolio of Purexa™ membrane series products in various form factors like columns, well plates and cassettes, with membrane volumes as small as 5.5 microliters up to several liters, as well as custom purification solutions.

Interested in sampling, purchasing or speaking with our expert staff?

Contact us!



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**Important Notice:** Many factors beyond the control of Donaldson can affect the use and performance of Donaldson products in a particular application, including the conditions under which the product is used. Since these factors are uniquely within the user's knowledge and control, it is essential the user evaluate the products to determine whether the product is fit for the particular purpose and suitable for the user's application. All products, specifications, availability and data are subject to change without notice, and may vary by region or country.