

Purexa™ PrA

for Antibody Purification



Purexa™ PrA affinity membranes utilize a convection-based mechanism to improve efficiency, purity and yield. Our membranes avoid pore diffusion complications while shortening processing times.

How Purexa™ PrA Works

Purexa™ PrA is our solution for antibody purification. Successfully separate target antibodies from the residual DNA and host cell proteins. Utilizing affinity-based chromatography, our porous membranes are functionalized for better purification.

Superior productivity: up to 10x with Purexa™ PrA

- + Higher dynamic binding capacity at shorter residence times
- + High antibody recovery with low residual DNA and host cell proteins
- + Consistent performance over multiple bind and elute cycles
- + Easier setup and breakdown

HPLC Purity Analysis

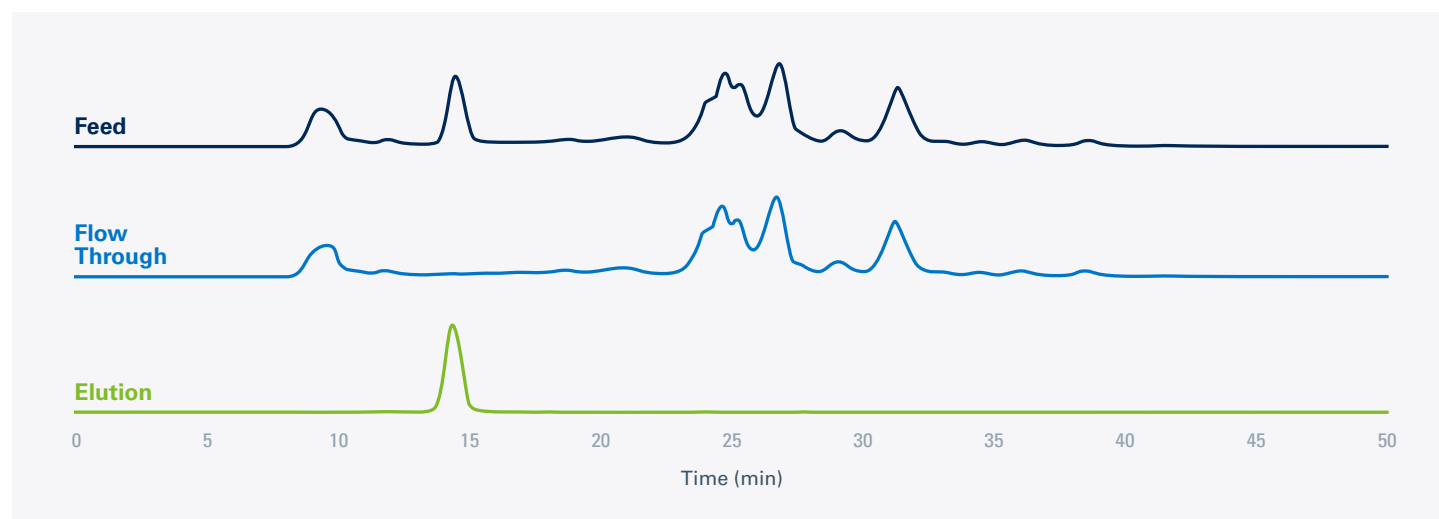


Figure 1. HPLC visualization of selective isolation of antibody from supernatant feed.

Increase Productivity with Purexa™ PrA

Compared to magnetic and resin beads, Purexa™ PrA affinity membrane chromatography is unaffected by pore diffusion and has no incubation time with overall shorter processing times. Purexa™ PrA can operate at rapid flow rates to enhance productivity while maintaining high purity eluates.

DBC Not Affected by Concentration

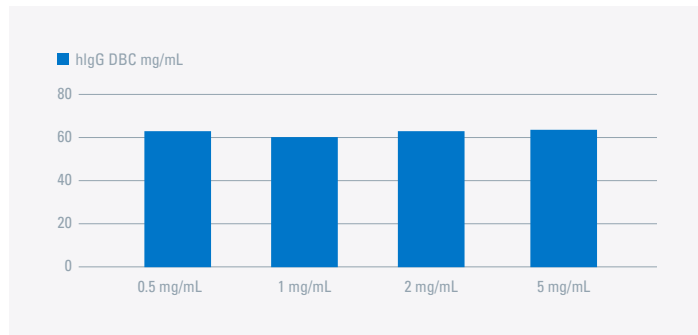


Figure 2. No decrease in dynamic bonding capacity (DBC) is observed with increasing concentrations of the antibody (mAb).

Higher DBC Than Resins, at High Flow Rates

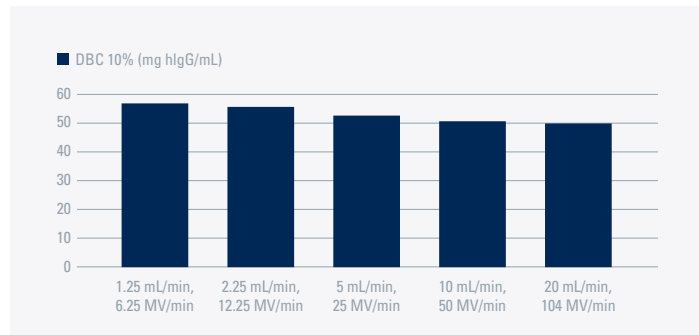


Figure 3. Flow Rate (mL/min), Membrane Volumes per minute (MV/min). Even at higher flowrates (20 mL/min), the dynamic bonding capacity (DBC) of Purexa™ PrA remains high.

Multiple Cycle Consistency

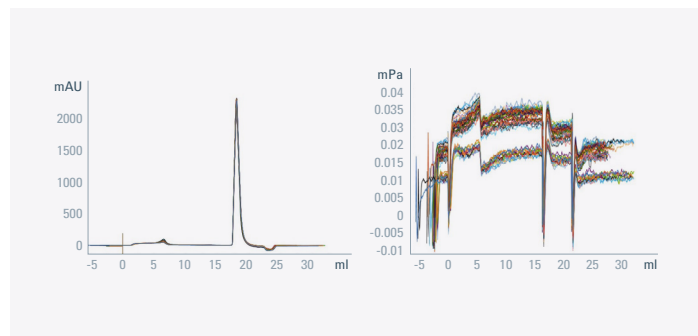


Figure 4. Purexa™ PrA is reusable, maintaining consistent elution performance (left) and consistent pressure levels (right) over repeated run cycles.

Various Form Factors & Volumes

Purilogsics, 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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