

PROTEIN A RESIN

Praesto® Jetted A50

High capacity, alkaline-stable, uniform-bead affinity chromatography resin for monoclonal antibody and recombinant protein purification

Praesto Jetted A50 is a high performance agarose-based Protein A resin that delivers exceptional performance in terms of capacity, pressure flow and lifetime.

Designed to meet the mAb processing demands of tomorrow, today, the combination of a highly cross-linked, uniform Praesto agarose base matrix with the NGL-Impact™ A ligand from Repligen® provides increased capacity and excellent alkaline stability, reducing your bioburden risk and improving your process efficiencies from the same manufacturing footprint.

Patented Jetting Technology

Praesto Jetted A50 HipH is manufactured using our patented Jetting technology, which produces consistent agarose beads with a uniform particle size distribution.

Jetting means supply chain security, reduced lead times, and faster mAb processing, all whilst contributing towards your sustainability goals.

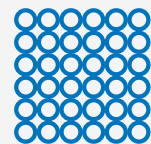
Typical physical and chemical characteristics

Polymer structure	Highly cross-linked agarose
Dynamic binding capacity	Up to 70 mg mAb/ml resin Up to 80 mg hlgG/ml resin (10 minute residence time)
Average particle size	50 µm
Particle size range	95% between 35 – 90 µm
Pressure/Flow specifications	Up to 200 cm/h (30 x 20 cm)
pH stability (Working range)	3 – 12
pH stability (CIP)	2 – 13
Recommended storage	2 – 8°C in 20% ethanol & 2% benzyl alcohol. Shipped in 20% ethanol, with 2% benzyl alcohol available upon request.



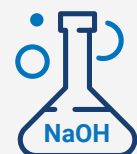
High dynamic binding capacity

Up to 70 mg/ml mAb
Up to 80 mg/ml hlgG



Uniform beads

Uniform beads and high mass transfer



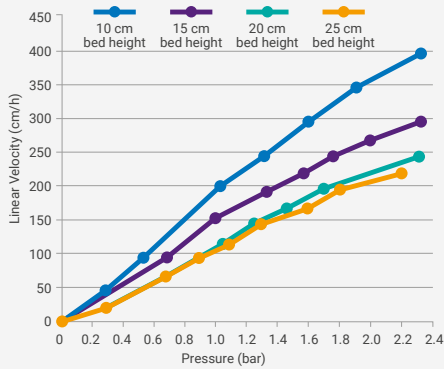
Alkaline stable

At over 100 hours exposure to
0.1 M NaOH

Praesto® Jetted A50

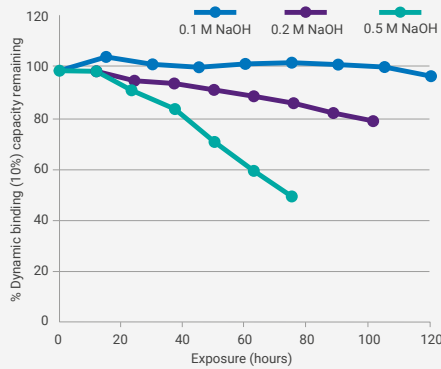
Excellent Pressure Flow Properties

The uniform particle size and highly cross-linked agarose base bead provides increased surface area without compromising on pressure flow performance. Praesto Jetted A50 has excellent flow properties, with up to 200 cm/h achievable in a standard mAb platform process. This has been verified in process scale columns.



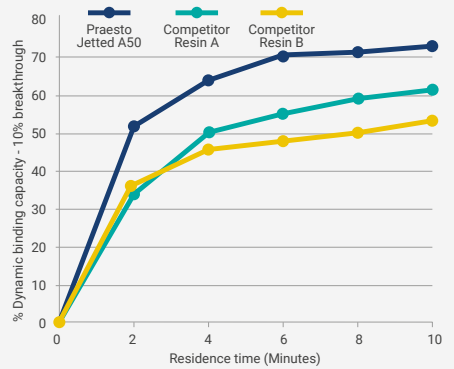
Alkaline Stability

Sodium hydroxide (NaOH) exhibits high efficiency in removing bound proteins, nucleic acids, and lipids from bioprocess resins, alleviating the risk of fouling on heavily burdened Protein A columns. Praesto Jetted A50 is alkaline stable for over 100 hours of exposure to 0.1 M NaOH, and over 30 hours of exposure to 0.5 M NaOH.








Dynamic Binding Capacity

Praesto Jetted A50 exhibits high dynamic binding capacities for conventional monoclonal antibodies, up to 70 g/L at a 10-minute residence time. Patented Jetting technology, coupled with the latest Protein A technology, allows for high capacity at even low residence times. The resin is uniquely suited to address the demands of modern bioprocessing, from high-titre cell cultures to continuous chromatography formats.



Available in bulk or pre-packed, pre-qualified OPUS® columns, packed and supplied by Repligen®

 <p>OPUS® RoboColumns®</p> <p>Volume: 0.05 ml – 0.6 ml</p> <p>Use: For use with robotic workstations for HTPD work.</p>	 <p>OPUS® MiniChrom Columns</p> <p>Volume: 0.2 ml – 10 ml</p> <p>Use: For process development and parameter screening as well as small scale purification or sample preparation.</p>	 <p>HT Columns</p> <p>Volume: 1 ml – 5 ml</p> <p>Use: For efficient resin screening for further optimization and verification.</p>	 <p>OPUS® 5 - 80R Columns</p> <p>Volume: 0.5 L – 150 L</p> <p>Use: Designed to meet the chromatography requirements of larger 1000 L and 2000 L single-use bioreactors.</p>	 <p>Bulk Resins</p> <p>Volume: 10 ml – 300 L+</p> <p>Use: Self-pack into chromatography columns using Purolite recommended column packing protocols.</p>
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Purolite, a leading manufacturer of quality ion exchange, catalyst, adsorbent and specialty high-performance resins, is the only company that focuses 100% of its resources on the development and production of resin technology.

We're ready to solve your process challenges. For further information on Purolite products and services, visit www.purolite.com or contact your nearest Technical Sales Office.



www.purolite.com

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