

Praesto® Jetted A50 HipH

The only commercially available Protein A resin designed specifically for elution of Fc-containing molecules at higher pH levels.

The unique properties of Praesto Jetted A50 HipH address challenges in eluting pH-sensitive mAbs and Fc-containing proteins. These can become unstable at pH levels typically used for elution with other Protein A resins (3 - 3.5). This resin provides high alkaline stability, capacity of 60 g/L for polyclonal human IgG and elution up to pH 5.

This creates a wider operational window for your Protein A step, facilitating rapid process development and processing of all Fc-containing molecules by:

- enabling use of a classic antibody purification platform
- retaining the unique specificity of Protein A for high recovery and excellent productivity
- minimizing impact on facility fit with comparable elution volumes and buffer usage
- lowering levels of post-Protein A contaminants, reducing polishing challenges and driving process robustness

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

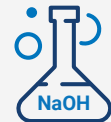
Polymer structure	Highly cross-linked agarose
Dynamic binding capacity	Up to ~60 mg hlgG/ml resin
Average particle size	50 µm
Particle size range	> 95% between 35 – 90 µm
Pressure/Flow specifications	Up to 200 cm/h (30 x 20 cm)
pH stability (Working range)	3 – 12
pH stability, CIP (Short term)	2 – 13
Recommended storage	2 – 8°C in 20% ethanol



Up to 60 mg/ml dynamic binding capacity



>95% recovery and purity



Resistant to 0.1 M NaOH for >100 cycles
(15 minute contact time)



Elution up to pH 5

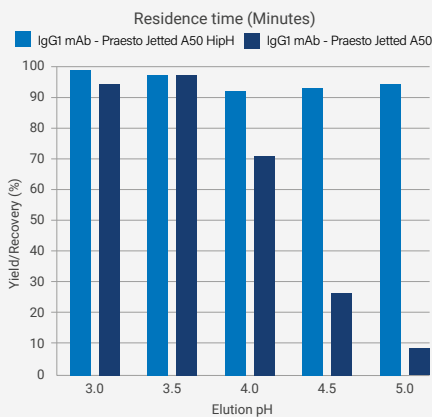


Uniform beads and high mass transfer

Praesto® Jetted A50 HipH

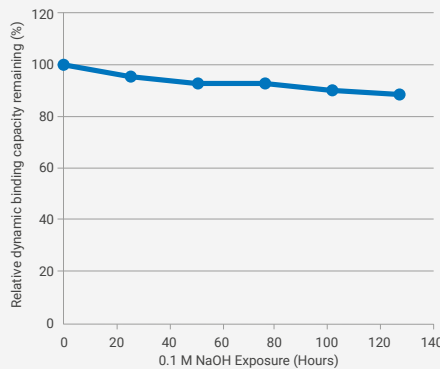
Innovative High pH Elution Technology

The unique ligand design allows for elution at a wider range of pH (3 - 5) when compared to conventional Protein A chromatography, without impacting yield, purity or elution volumes.



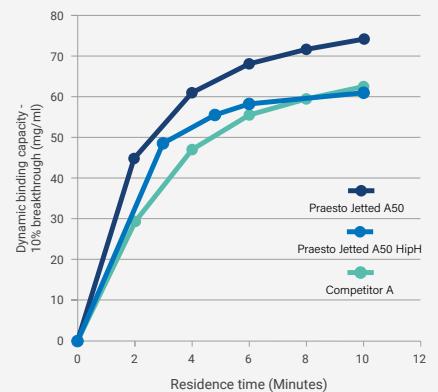
Alkaline Stability

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 HipH maintains excellent capacity after exposure to 0.1 M NaOH for 120 hours, for efficient CIP and longer resin lifetime.








Dynamic Binding Capacity

Our uniform agarose base matrix maintains high mass transfer and high capacity even at low residence times. Praesto Jetted A50 HipH shows comparable performance for polyclonal IgG capacity to our Praesto Jetted A50 Protein A resin, which is established in FDA-approved commercial manufacturing processes.



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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