



**Purolite®**  
Life Sciences

# Praesto AP+

**Praesto®**

High capacity, alkaline-stable Protein A affinity chromatography resin, optimized for downstream processing of monoclonal antibodies and recombinant proteins

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Purolite Life Sciences

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## A high-performance Protein A chromatography resin for increased productivity in downstream processing of clinical trial material such as monoclonal antibodies. It is designed to be a direct drop-in replacement for MabSelect™ SuRe LX\*.

### About Praesto AP+

Praesto AP+ (also referred to as 'Praesto AP Plus') is our latest-generation affinity chromatography resin to be produced using batch emulsification technology. It is an alkaline-stable Protein A affinity resin based on the first-generation product, Praesto AP, with enhanced performance characteristics over its predecessor.

Praesto AP+ has been purpose-designed for the production of clinical trial material and commercial manufacturing by significantly increasing the flow properties of Praesto AP, whilst maintaining high key performance properties such as dynamic binding capacity, CIP stability and packing reproducibility.

### Base matrix

The Praesto high-flow agarose base matrix provides a rigid, yet open pore structure. Compared to softer cross-linked agarose beads with similar porosity characteristics, Praesto resins can be operated at higher flow velocities at process scale, increasing productivity significantly.

### Market-leading performance

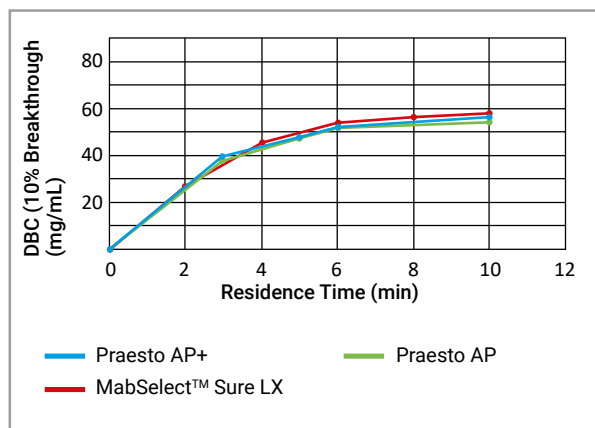
Praesto AP+ performance is benchmarked against MabSelect™ SuRe LX, from Cytiva Life Sciences. It therefore achieves very similar results for key performance parameters. This makes Praesto AP+ a high-performance resin which is also suitable as a direct drop-in replacement for MabSelect™ SuRe LX.

### Advantages:

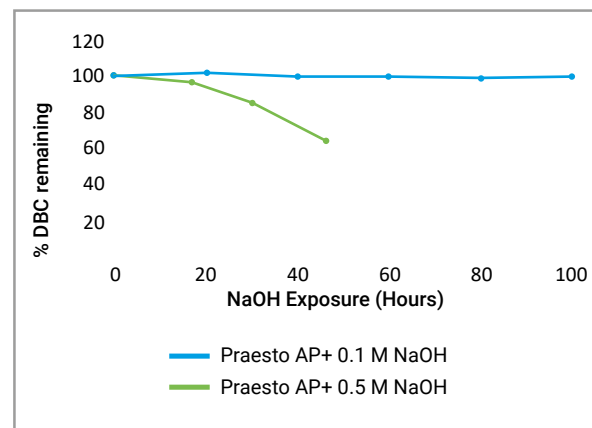
- **High binding capacity**  
50 g IgG per L of resin at 6 minutes residence time
- **Excellent flow properties**  
Max. flow velocity of 400 cm/h with pressure drop of less than 1.5 bar
- **Alkaline stable**  
At over 100 hours exposure to 0.1 M NaOH
- **Self-pack or pre-packed columns**  
Our column packing experts can work with your scientists
- **Secure, validated supply at short lead times**  
500 L orders delivered in <30 days

\*MabSelect is a registered trademark of Cytiva Life Sciences

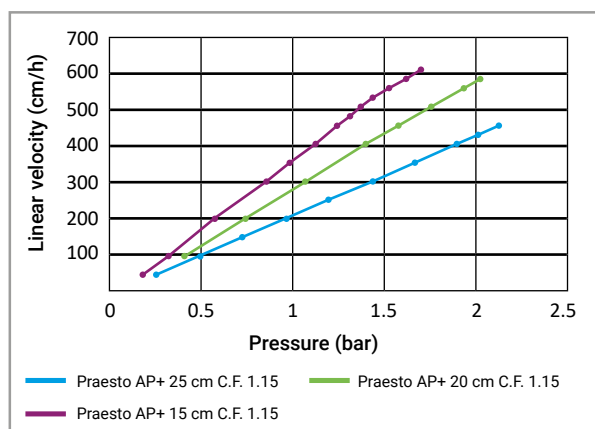
**Figure 1:** Dynamic binding capacity of Praesto AP+, Praesto AP, and MabSelect™ SuRe LX



**Figure 2:** Alkaline stability of Praesto AP+



**Figure 3:** Pressure/flow performance of Praesto AP+ packed into a BPG 300 column at 25 cm, 20 cm and 15 cm bed heights.



#### Typical Physical and Chemical Characteristics

<b>Polymer Structure</b>	Highly cross-linked agarose
<b>Appearance</b>	Spherical beads
<b>Functional Group</b>	Alkaline-stable Protein A
<b>Particle Size (d50v) µm</b>	85
<b>Dynamic Binding Capacity*</b>	50 mg/ml (human IgG)
<b>Maximum Flow Velocity (cm/h)**</b>	400
<b>pH Stability</b>	2 - 12
<b>Storage</b>	20% ethanol (2 - 8°C)

\* Determined at 10% breakthrough using polyclonal human immunoglobulin G at a residence time of 6 minutes.

\*\* Determined using demineralized water at 20°C in a BPG 300 column (30 cm Inner Diameter) at 20 cm bed height with a pressure drop of less than 1.5 bar.

# Ordering Information

To place your order contact us via email or telephone and quote the product codes found in the table.

As part of our ongoing commitment to improving security of supply of bioprocess resins globally, we aim to deliver Praesto Protein A products in volumes smaller than 500 litres within 30 days of order.

## Security of Supply

Purolite® has manufacturing facilities at 5 strategic locations in the USA, Asia and Europe. Should Praesto production facilities in the UK be adversely affected to a level that would disrupt business operations, Purolite has designed manufacturing processes that facilitate rapid deployment at a different location. In this event, a rebuild plan would be implemented at our facility in Romania using an identical, modular design of the UK-based production facility.

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

Bulk Resin	
VOLUME	PRODUCT CODE
10 ml	PR00330-163
25 ml	PR00330-166
100 ml	PR00330-164
500 ml	PR00330-165
1 L	PR00330-310
5 L	PR00330-311
10 L	PR00330-312
10 L - 500 L	CONTACT US

Pre-Packed Columns	
COLUMN / VOLUME	PRODUCT CODE
HT Column (1 ml)	PR00330-275
HT Column (5 ml)	PR00330-276
HT Column (5 x 1 ml)	PR00330-575
HT Column (5 x 5 ml)	PR00330-576
MiniChrom (1 ml)	PR00330-175
MiniChrom (5 ml)	PR00330-176
RoboColumn (200 µl)	PR00330-174
RoboColumn (600 µl)	PR00330-279





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Purolite, the 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](http://www.purolite.com) or contact your nearest Technical Sales Office.



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