PRODUCT DATASHEET

Praesto®
AP HT Column (5ml)

Highly cross linked agarose
Protein A affinity resin

Praesto HT columns are designed for efficient resin screening, as well as for optimization and verification. HT Columns from Purolite Life Sciences streamline your separations, and are available pre-packed with any *Praesto* Affinity or Ion Exchange Chromatography agarose resin.

Columns are available in 1 ml and 5 ml bed volumes with a 2.5 cm bed height. HT Columns are compatible with all commonly-used chromatography systems, due to universal 1/16" connectors. HT Columns are constructed of polypropylene, preventing interaction with biological molecules and ensuring biocompatibility.

Praesto AP is a Protein-A resin designed on a novel high flow agarose backbone which uses a recombinant alkaline-tolerant Protein-A ligand expressed in E.coli. The Protein-A ligand used for *Praesto* AP resulted from protein engineering of one of the IgG-binding domains of Protein-A. In particular, the amino acids sensitive to alkali conditions were identified and then substituted with more stable ones to deliver superior alkaline stability which provides hundreds of re-cycles. *Praesto* AP addresses today s late stage clinical manufacturing challenges for high productivity together with cost-efficient MAb capture. It is purpose-designed and evaluated for the production of late phase clinical trial material, PIII and commercial manufacture, where typically hundreds of reuse cycles are performed.

CONTACT A SPECIALIST

PRINCIPAL APPLICATIONS

- Protein purification
- MAb Purification

ADVANTAGES

- Cost effective without compromising buffer consumption or processing time
- Very high reproducibility and scalability
- Pre-packed and pre-qualified
- High productivity and high capacity
- Excellent pressure/flow performance
- Secure, validated supply and regulatory support

REGULATORY APPROVALS

- Manufactured under cGMP conditions

TYPICAL PACKAGING

- Prepacked 5ml chromatography column

TYPICAL PHYSICAL & CHEMICAL CHARACTERISTICS:

Polymer Structure	Highly cross linked agarose
Appearance	Spherical beads

Purolite® Life Sciences

Americas
T +1 610 668 9090
F +1 610 668 8139
americas@purolite.com

Europe
T +44 1443 229334
F +44 1443 227073
europe@purolite.com

Asia Pacific
T +86 571 876 31382
F +86 571 876 31385
asiapacific@purolite.com

Functional Group	Protein A
Packed bed height	25 mm
Column volume	5 ml
Connector	Universal 10.32 (1/16") UNF Threads
Column material	Polypropylene
Chemical stability	All commonly used aqueous buffers, pH 1-14, organic solvents
Avoid	Halogenated organic solvents, hexane
Working pressure (max.)	5 bar
Particle Size - µm	85 µm
Dynamic Binding Capacity (min.)- 3 minutes residence time	25 hIgG/ml
pH stability, CIP (short term)	2 - 12
pH stability, working range	3 - 10
Recommended Storage	2 - 8 °C
Recommended Storage	20% ethanol

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