

PRODUCT DATA SHEET

Praesto® SP45

Agarose Highly Cross Linked Strong
Cation Exchanger, 45 µm particle size

PRINCIPAL APPLICATIONS

- Protein purification (20-500 kDa)
- MAb Purification

ADVANTAGES

- Excellent dynamic binding capacities for high-productivity and scalability
- Excellent pressure/flow performance
- High resolution/selectivity
- Excellent chemical and physical stability
- Secure, validated supply and regulatory support

REGULATORY APPROVALS

- Manufactured under GMP conditions

TYPICAL PHYSICAL & CHEMICAL CHARACTERISTICS:

Polymer Structure	Highly cross linked agarose
Appearance	Spherical beads
Functional Group	Sulfopropyl
Chemical stability	All commonly used aqueous buffers. 1M NaOH, 8M urea, 6M guanidine hydrochloride, 30% isopropanol and 70% ethanol
Avoid	Oxidising agents, cationic detergents
Ionic capacity - medium	0.11 - 0.16 mmol H ⁺ /ml
Ionic capacity - resin	0.11 - 0.16 mmol/ml
Particle Size - µm	45 µm
Dynamic Binding Capacity (min.) - 6 minutes residence time	80 IgG/ml
Dynamic Binding Capacity (min.)- 3 minutes residence time	80 hIgG/ml
Pressure/flow (min.) - at 3 bar in a 2.6 x 20 cm column (pressure-packed at 4 bar)	200 cm/h
pH stability, CIP (short term)	3 - 14
pH stability, working range	4 - 13
Recommended Storage	4 - 30 °C
Recommended Storage	20% ethanol
Recommended Storage	0.2M sodium acetate



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