

Praesto® NHS

Highly Cross Linked Pre-Activated Agarose Base Matrix

Praesto NHS resins have been designed to offer a simple solution for ligand immobilization onto an agarose chromatography matrix, which can be utilized to make customized affinity media. This enables rapid scale-up from R&D to large-scale bioprocess production columns.

Praesto NHS resins couple ligands which have a primary amine. It incorporates a spacer chain which separates the ligand from the chromatography matrix enabling maximum accessibility to the ligand. The pre-activated NHS resin forms a stable amide linkage between the matrix and ligand resulting in very low ligand leakage and high caustic stability.

[Praesto® Pre-Activated Chromatography Resins - FAQs](#)

PRINCIPAL APPLICATIONS

- Protein purification (20-500 kDa)
- Production of customized affinity chromatography media

ADVANTAGES

- High productivity
- High capacity
- Enhanced pressure/flow performance
- Secure, validated supply and regulatory support

REGULATORY APPROVALS

- Manufactured under cGMP conditions

TYPICAL PACKAGING

- Bulk Resin
- Production-Scale OPUS® Columns
- OPUS® Robocolumns®
- OPUS® MiniChrom Columns
- HT Columns

TYPICAL PHYSICAL & CHEMICAL CHARACTERISTICS:

Polymer Structure	Highly cross linked agarose
Appearance	Spherical beads
Functional Group	NHS-ester
Chemical stability	After coupling - All commonly used aqueous buffers, 2M NaOH, 8M urea, 6M guanidine HCl, 30% isopropanol, 70% ethanol, 30% acetonitrile and commonly used detergents
Particle Size - µm	45, 65, 90 µm
Pressure/flow (min.) - at 3 bar in a 2.6 x 20 cm column (pressure-packed at 4 bar)	200 cm/h
Exclusion limit for globular proteins	10 ⁷ Daltons
pH stability, CIP (short term)	2 - 13 (after coupling)
pH stability, working range	2 - 13 (after coupling)
Recommended Storage	100% IPA - 2 - 8 °C

