

SMART Chromatography™ SP Boost

SMART Chromatography™ FPLC column packed with Strong Cation Exchange Agarose Resin.

Specifically designed for SMART Chromatography™ ion exchange separation.

Product Code	SC-4202-M010.0-012
Quality Parameter	Specification
Packing evaluation asymmetry: (no double peak, no shoulder)	$0.7 \leq A_s \leq 1.6$
Asymmetry LOT homogeneity:	$CV \leq 8 \%$
Other Product Properties	
Application	SMART Chromatography™ SP Boost is a 10 mL FPLC column with 12 cm bed height. Packed with large cross-linked agarose beads, derivatized with sulphopropyl (SP) strong cation ligand. The resin has increased binding capacity due to more readily available ion exchange ligands localized on the bead surface. The gel can be used to purify biomolecules via their ion exchange ligands. It is specifically designed for SMART Chromatography™ ion exchange separation.
Base matrix material	~250 µm (mean bead diameter) cross-linked, beaded agarose.
Base column material	PMMA column housing, POM inlet/outlet nut, 100 µm stainless steel frits, M6 connectors
Recommended flow rate	up to 15 mL/min (~1000 cm/hr)
Maximum operating pressure	3 bar (0.3 MPa, 2.96 atm)
pH stability	2 – 14 (short term) 4 – 12 (long term)
Chemical stability	This column is generally tolerant of all commonly used aqueous solutions for protein purification. Avoid oxidizing agents, cationic detergents and buffers.
Quality parameter of the resin	Ion exchange capacity of 0.08 – 0.16 mmol H ⁺ / mL resin
Storage buffer	0.2 M sodium acetate in 20 % ethanol
Storage	+2 to +30 °C. DO NOT FREEZE!
Miscellaneous	inlet/outlet dimensions ratio 2:1
Notice	The use of this product is strictly limited to trained personnel for professional manufacturing, laboratory, or research purposes. Final Fitness-For-Use must be determined by and is the sole responsibility of the end-user. SMART chromatography™ is covered by US Patent 11,325,104 & 11,731,107.