

## SMART Chromatography™ DEAE

**SMART Chromatography™ FPLC column packed with Weak Anion Exchange Agarose Resin.**

Specifically designed for SMART Chromatography™ ion exchange separation.

<b>Product Code</b>	<b>SC-4207-M005.0-006</b>
<b>Quality Parameter</b>	<b>Specification</b>
Packing evaluation asymmetry: (no double peak, no shoulder)	$0.7 \leq A_s \leq 1.6$
Asymmetry LOT homogeneity:	$CV \leq 8 \%$
<b>Other Product Properties</b>	
Application	SMART Chromatography™ DEAE is a 5 mL FPLC column with 6 cm bed height. Packed with large cross-linked agarose beads, derivatized with diethylaminoethyl (DEAE) weak anion ligands. 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, anionic detergents, and buffers.
Quality parameter of the resin	Ion exchange capacity of 0.08 – 0.16 mmol Cl <sup>-</sup> / mL resin
Storage buffer	20 % ethanol
Storage	+2 to +30 °C. DO NOT FREEZE!
Miscellaneous	---
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.