Q Cellulose resin

Cat. No. quaternary amine-003C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Q cellulose strong ion exchangers are highly cross-linked, surface modified media with high dynamic binding capacities and stability at high flow velocities. These high performance optimized media offer significant opportunity for increasing downstream purification throughput.
Cat.no	quaternary amine-003C
Column	5mm ID ×50 mm L
Matrix	Highly cross-linked cellulose with dextran scaffold
Ion exchange capacity	0.14-0.29 meq/ml-gel
Functional group	quaternary amine group: –O–CH2CHOHCH2OCH2CHOHCH2N+(CH3)3
Protein	quaternary amine
Average particle size	40 – 130 μm
Dynamic binding capacity	16 mg/mL (BAS); 10 mg/mL (human-γ-globulin)
Viscosity	Store unopened container at ambient temperature. Do not freeze. Short-term storage for bulk and column (2 weeks or less) can be at a room temperature with pH 2 to pH 13. It is possible to store under alkaline condition at less than 20 °C as

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	recommendation.Longer storage should be in neutral buffer containing 20 % ethanol, at 2 – 8 °C. Do not freeze.
Chemical stability	Cellulose resin is chemically stable. The media can be washed with a variety of solutions and shows no loss in capacity, resolution or flow rates.
Physical stability	Cellulose resiin Ion Exchangers are semi-rigid due to the crosslinked structure which gives high mechanical resistance and results in two advantages; no generation of fines during the preparation of the column and higher operating bed height without concern of bed collapse common to many 'soft gels'.
pH working range	2-12
Elution buffer	0.1 – 2.0 M sodium chloride in adsorption buffer

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