

## Q Cellulose resin

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

### SPECIFICATION

<b>Product Overview</b>	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.
<b>Cat.no</b>	quaternary amine-003C
<b>Column</b>	5mm ID x50 mm L
<b>Matrix</b>	Highly cross-linked cellulose with dextran scaffold
<b>Ion exchange capacity</b>	0.14-0.29 meq/ml-gel
<b>Functional group</b>	quaternary amine group: $-O-CH_2CHOHCH_2OCH_2CHOHCH_2N^+(CH_3)_3$
<b>Protein</b>	quaternary amine
<b>Average particle size</b>	40 – 130 $\mu$ m
<b>Dynamic binding capacity</b>	16 mg/mL (BAS); 10 mg/mL (human- $\gamma$ -globulin)
<b>Viscosity</b>	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](mailto: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.
<b>Chemical stability</b>	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.
<b>Physical stability</b>	Cellulose resin 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'.
<b>pH working range</b>	2-12
<b>Elution buffer</b>	0.1 – 2.0 M sodium chloride in adsorption buffer

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA