

RESOURCE S column

Product Information

Cat#No# RE-273P

Product Overview

RESOURCE S columns are prepacked with SOURCE 15S, a strong cation exchanger for high-resolution polishing purification of proteins, at high flow rates.

Characteristic

Sulfoethyl (S) strong cation exchanger for high resolution ion exchange chromatography.
Mono-sized 15 µm rigid beads give low back pressure and high flow rates allowing for high productivity.
High chemical stability enables wide range of working conditions with good resistance to cleaning conditions at high pH.

Maximum operating pressure

15 bar [1.5 MPa] (218 psi)

Matrix

Spherical and monodisperse, porous, rigid, polystyrene/divinyl benzene particles.

Average particle size

~ 15 µm

Ligand

Methyl sulfonate (strong cation exchanger)

Dynamic binding capacity

15S ~ 80 mg Lysozyme/mL resin

Recommended flow rate

<1800 cm/h

Recommended column height

30 mm

RESOURCE S column

Chemical stability

Stable to commonly used aqueous buffers, 1.0 M HCl, 100% ethanol, 100% isopropanol, 100% acetonitril, 100% methanol, 1.0 M NaOH.

pH working range

2 to 13

CIP stability

1 to 14

Temperature stability

4°C to 40°C

Storage

4 to 30°C, 0.2 M Sodium Acetate in 20% Ethanol.

Cleaning-in-place

1. Wash with at least 2 column volumes of 2 M NaCl at 1 mL/min (RESOURCE 1 mL), 6 mL/min (RESOURCE 6 mL).
2. Wash with at least 4 column volumes of 1.0 M NaOH (same flow as in step 1).
3. Wash with at least 2 column volumes of 2 M NaCl (same flow as in step 1).
4. Rinse with at least 2 column volumes of distilled water (same flow as in step 1) until the UV-baseline and the eluent pH are stable.
5. Wash with at least 4 column volumes of start buffer or storage buffer (same flow as in step 1) until eluent pH and conductivity have reached the required values.

Pack size

1 mL

Maximum flow velocity

10 mL/min

Dimensions

6.4 × 30 mm

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Column i.d.

6.4 mm
