

# ReliChrom™ CM400/SS

Lot. E003C056

## Column dimensions:

<b>Internal Diameter i.d.</b>	<b>0.8 cm</b>
<b>Length</b>	<b>10 cm</b>
<b>Area</b>	<b>0.5 cm<sup>2</sup></b>
<b>Resin volume</b>	<b>5 ml</b>
<b>Theoretical plates N</b>	<b>1715 m<sup>-1</sup></b>
<b>Asymmetry A<sub>s</sub></b>	<b>1.14</b>

## Experimental conditions

Sample	100 µl 1% Acetone (v/v)
Mobile phase	50 mM TRIS/HCl, 0.9% NaCl, pH 8.0
Flow velocity	1.25 ml/min

## Instructions for use

### Preliminary set up:

- Rinse the chromatographic system circuit with DI water;
- After the removal of the upper stopper of the ReliChrom™ column, connect it to the chromatographic unit;
- Remove the bottom stopper of ReliChrom™ column and connect the column outlet to the specific device of your chromatographic system (Detectors, fraction collector...).

### Operation mode:

- wash out the conditioning solution with 10 BV of DI water;
- start the equilibration with the desired buffer solution at an appropriate linear flow rate;
- run the chromatographic separation according to your individual protocol at the same flow rate as in the previous step;
- if necessary, perform a regeneration step following the instructions here below:

- Condition the resin with 1 BV of NaOH 0.5 M
- Displace the base with 2 BV of DI water
- Regenerate with 1 – 1.5 BV HCl 0.5 M
- Displace the acid with 2 BV of DI water
- Rinse with 5 – 10 BV of DI water

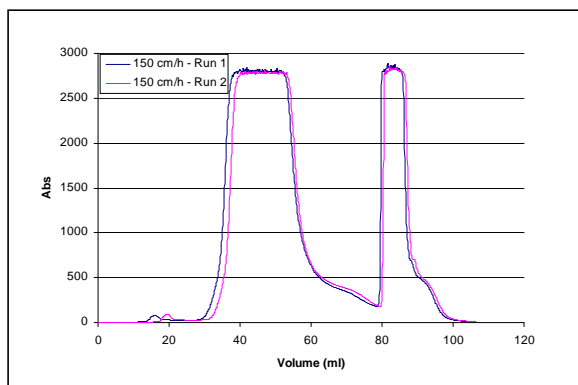
## Lysozyme capacity vs linear velocity

**Feed solution:** 8 g/l Lysozyme in 20 mM sodium acetate buffer, pH 5

**Buffer equilibration:** 6 BV sodium acetate buffer 20 mM, pH 5

**Displacement:** 6 BV sodium acetate buffer 20 mM, pH 5

**Elution:** 6 BV sodium acetate buffer 20 mM, pH 5 + NaCl 1M



### Notice:

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