# ReliChrom™ SP400/SS

**Lot. E905C126**

## Column dimensions:

| | |
|---|---|
| **Internal Diameter i.d.** | **0.8 cm** |
| **Lenght** | **10 cm** |
| **Area** | **0.5 $cm^2$** |
| **Resin volume** | **5 ml** |
| **Theoretical plates N** | **1640 $m^{-1}$** |
| **Asymmetry $A_s$** | **0.95** |

### 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…).

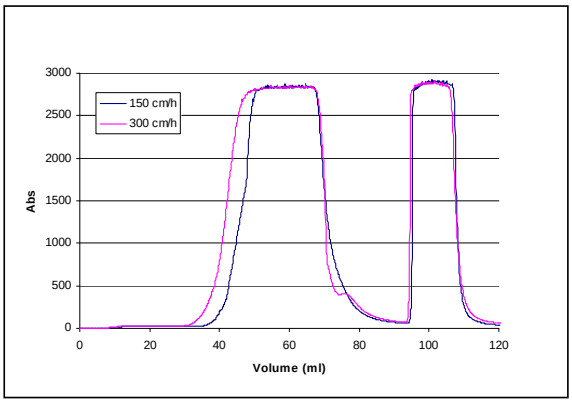
Operation mode:

- 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
  - Condition the resin with 2 BV NaCl 0.5 – 1M
  - 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





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