ReliChrom™ IDA400/SS

Lot. E905C127

Column dimensions:

Internal Diameter i.d.	**0.8 cm**
Lenght	**10 cm**
Area	**0.5 cm^2**
Resin volume	**5 ml**
Theoretical plates N	**1587 m^{-1}**
Asymmetry A_s	**1.13**

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…).

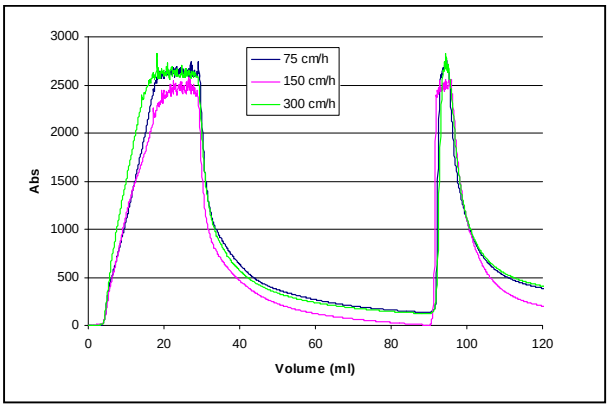
Operation mode:

- 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:

  - Remove residual Ni with EDTA 50 mM
  - Displace EDTA with 2 BV of DI water
  - Condition the resin with 1 - 1.5 BV of NaOH 0.5 M
  - Wash the resin with 5 – 10 BV of DI water
  - Reload Ni with a suitable salt solution ($NiCl_2$)

Papain capacity vs linear velocity

Feed solution: 20 g/l Papain crude extract in 20 mM phosphate buffer, pH 7.2 + NaCl 200 mM
Buffer equilibration: 12 BV phosphate buffer 20 mM, pH 7.2 + NaCl 200 mM
Displacement: 8 BV phosphate buffer 20 mM, pH 7.2 + imidazole 0.5 M
Elution: 4 BV phosphate buffer 20 mM, pH 7.2 + NaCl 200 mM



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