# ReliSorb™ IDA

## Highly Porous Hydrophilic Packing Material


**Product Features**

| | |
|---|---|
| Matrix | Highly porous polymethacrylate |
| Appearance | White opaque spherical beads |
| Functional group | Iminodiacetic, Na form |
| Dynamic Binding Capacity (DBC) | min. 10 mg/ml (Papaine[a]) |
| pH stability range | 1 – 14 |
| Temperature stability range | 2 – 60 °C |
| Recommended storage temperature | 2 – 30 °C |

[a] Feed solution: 20 g/l Papaine crude extract in 20 mM phosphate buffer, pH 7.2 + NaCl 200 mM; flow rate = 150 cm/h

**Application**

Chelating resin for metal affinity chromatography of proteins containing histidine residues.

| *Name* | *Particle Size Range (µm)* | *Mean diameter (µm)* |
|---|---|---|
| ReliSorb™ IDA400/SS (*) | 50 – 150 | 90 |
| ReliSorb™ IDA400 | 75 – 200 | 120 |
| ReliSorb™ IDA405/EB | 200 – 500 | 300 |

(*) also available in 0.8 x 10 cm ReliChrom™ prepacked columns with 5 ml net volume and in $Ni^{2+}$ ionic form.

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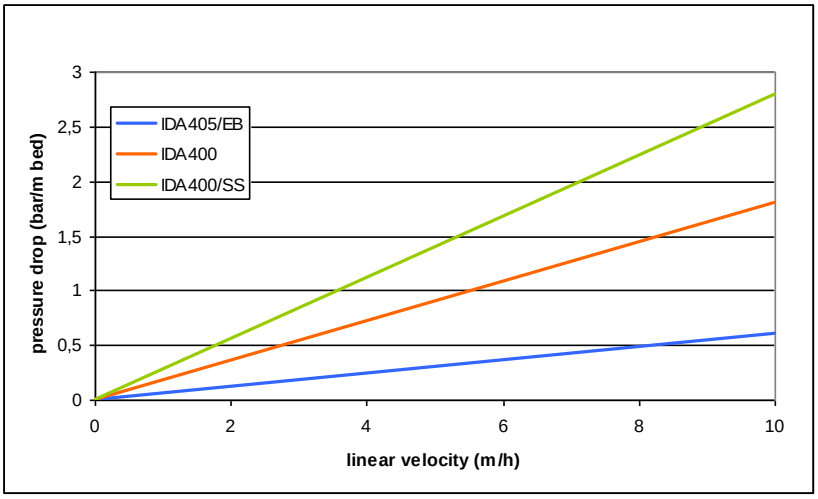
## Pressure drop in water at 25°C



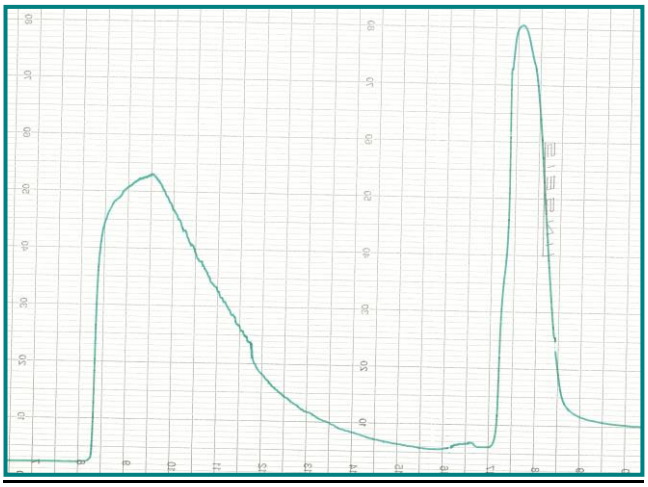

## Typical purification example: His-tagged enzyme purification from Escherichia coli lysate

Column dimensions:
25.2 mm i.d. x 285 mm
Resin loaded with $NiCl_2$

Sample loading:
Up-flow loading of lysate from Escherichia Coli diluted in water + NaCl 0.5 M

Buffer elution:
Down-flow elution of 20 mM phosphate buffer pH 7.2 + imidazole 0.5 M

Temperature: 25 °C



**Green line**: Elution profile of the sample loaded

## Remarks

Wear safety glasses and gloves during the resin handling.
Refer to the Safety Data Sheet for all details.



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