

# ReliSorb™ PH

## Highly Porous Hydrophilic Packing Material



### Product Features

Matrix	Highly porous polymethacrylate
Appearance	White opaque spherical beads
Functional group	Phenyl
Dynamic Binding Capacity (DBC)	min. 30 mg/ml (BSA <sup>a</sup> )
pH stability range	1 – 14
Temperature stability range	2 – 60 °C
Recommended storage temperature	2 – 30 °C

<sup>a</sup> Feed solution: 10 g/l BSA in 20 mM phosphate buffer, pH 7 + (NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub> 2 M; flow rate = 150 cm/h

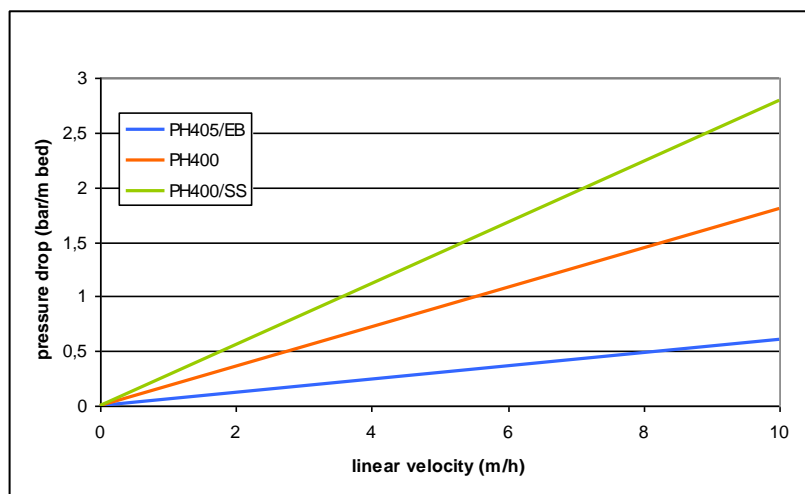
### Application

Hydrophobic interaction resin for biomolecules purification.

<i>Name</i>	<i>Particle Size Range (μm)</i>	<i>Mean diameter (μm)</i>
<b>ReliSorb™ PH400/SS (*)</b>	50 – 150	90
<b>ReliSorb™ PH400</b>	75 – 200	120
<b>ReliSorb™ PH405/EB</b>	200 – 500	300

(\*) also available in 0.8 x 10 cm **ReliChrom™** prepacked columns with 5 ml net volume.

## Pressure drop in water at 25°C



## Example of purification of Lipase AS

Column dimensions:

16 mm i.d., 16 ml bed volume

Sample loading:

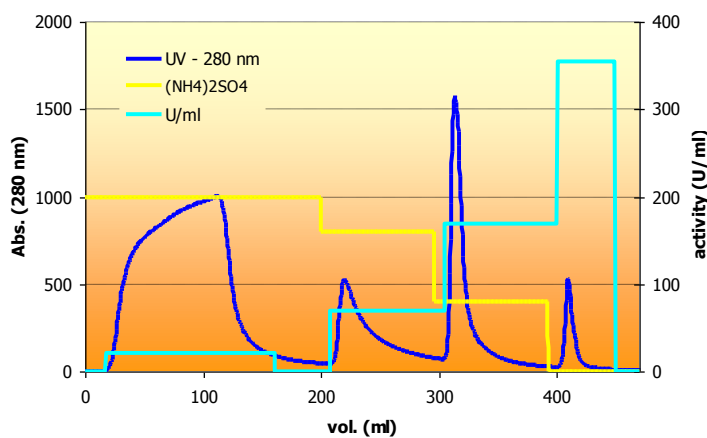
solid sample dissolved in  
20 mM phosphate buffer  
pH 7.0 + 2 M (NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub>

Buffer elution:

step gradient

Flow rate: 60 cm/h (2 ml/min)

Temperature: 25 °C



**Blue line:** elution profile; **Yellow line:** buffer elution gradient; **Green line:** enzyme activity measurement using *p*-nitrophenyl butyrate as substrate

## Remarks

Wear safety glasses and gloves during the resin handling.

Refer to the Safety Data Sheet for all details.

### Notice:

All the data and suggestions made herein are based upon our research and are believed to be accurate. However, no guarantee is made or implied since conditions and methods of use of our products are beyond our control. Our products are sold on the conditions that the user will evaluate himself, as well as our formulas and recommendations, to determine their suitability for his own purpose. Also, statements as to the use of our products are not to be construed as recommendations for their use in the infringements of any patent.