

## Proteus Metal Chelate Mini and Midi Kits

### Proteus Metal Chelate Mini and Midi Kits

are designed for simple, complete and rapid 6xHis-tagged recombinant protein purification from bacterial cells, insect vectors, mammalian cells and yeast under native or denaturing conditions.

Proteus purification kits incorporate patented, single step and affinity spin columns, clear and unambiguous procedures, desalting/buffer exchange columns and ready-to-use buffers.

Proteus Metal Chelated kits are ideal for screening expression clones for high levels of 6xHis-tagged proteins, scouting mutant clones for recombinant protein expression and multiple small-scale and preparative purification of 6xHis-tagged proteins for activity and structural studies.

### Convenient & easy to use

- ▶ Simply insert the pre-packed chromatography resin plug into the device and place it in the centrifuge.
- ▶ No mess, no filling columns, no attachment of accessories, no pumps and no lengthy equilibration.
- ▶ Kits are supplied with a comprehensive technical and application-supported handbook, a step-wise laminated protocol card and all necessary buffers for rapid and simple recombinant protein purification.

### Rapid

- ▶ The purification protocols provided in the operating handbook permit fast recovery of pure recombinant protein.
- ▶ Multiple samples can be processed at the same time, allowing rapid screening for 6xHis-tagged proteins.
- ▶ No hold-up volume or spluttering. High recovery during the fast elution step.

### Cost-effective

- ▶ Proteus spin columns can be used by a laboratory with access to a centrifuge.
- ▶ The Proteus columns are re-usable. Each Mini spin column can be used up to a minimum 2 times and each Midi spin column can be used up to a minimum of 2 times without nickel re-charging.
- ▶ As research budgets are always under pressure, Proteus kits offer a cost-effective alternative.

### Performance

- ▶ Proteus chromatography spin columns will typically bind the target recombinant protein with greater than 90 % recovery
- ▶ Proteus spin columns can purify and concentrate the protein of interest in a single step and with high reproducibility (low % CV).
- ▶ Proteins are sufficiently pure for structural and activity-based studies or for raising antibodies.



SDS-polyacrylamide gel showing the purity of 6xHis-tagged recombinant protein from E.coli. 1 = Marker; 2 = Cell lysate, 3 = 1st Eluate, 4 = 2nd Eluate

Product Name	Min. Number of purification	Cat.No
<b>Mini Products</b>		
<b>Mini IMAC Starter Kit</b> (4 Units)	8	42021.01
<b>Mini IMAC Kit</b> (24 Units)	48	42022.01
<b>Mini IMAC Pack</b> (24 Units, excludes UF concentrators)	48	42023.01
<b>Mini IMAC Bulk Pack</b> (72 Units, excludes UF concentrators and buffers)	144	42024.01
<b>Midi Products</b>		
<b>Midi IMAC Kit</b> (8 Units)	16	42025.01
<b>Midi IMAC Pack</b> (8 Units, excludes UF concentrators)	16	42026.01
<b>Midi IMAC Bulk Pack</b> (24 Units, excludes UF concentrators and buffers)	48	42027.01
<b>Accessories</b>		
<b>IMAC Buffer Pack</b> (250 ml 5 x PBS Buffer A, 150 ml 1 x Imidazole Buffer B)	n.a.	42043.01
<i><b>IMAC products are available through SERVA Electrophoresis GmbH in Germany and Austria, only</b></i>		