

Purification

# USB® PrepEase® Histidine-Tagged Protein Purification Products



- Novel - based on *dry silica based resin*
- Convenient storage - store at room temperature
- Less non-specific binding compared to Ni agarose beads
- High purity > 95%
- Easy to elute protein off column
- Utilizes metal (Ni) affinity gravity-flow chromatography

### High Specificity Protein Purification

**Designed for fast, convenient and high specificity purification of Histidine-tagged proteins**

- High Specificity - due to single binding site to Histidine-tagged protein
- Based on Ni-TED resin
- Low metal leaching - 5 binding sites to Ni<sup>2+</sup>
- Includes PrepEase High Specificity Histidine-Tagged Protein Columns and necessary reagents

### PrepEase Histidine-Tagged Protein Purification

#### Mini Kit - High Specificity

Binding Capacity up to 400 µg  
 Culture Volume up to 25 ml  
 78791 .....50 preps

### PrepEase Histidine-Tagged Protein Purification

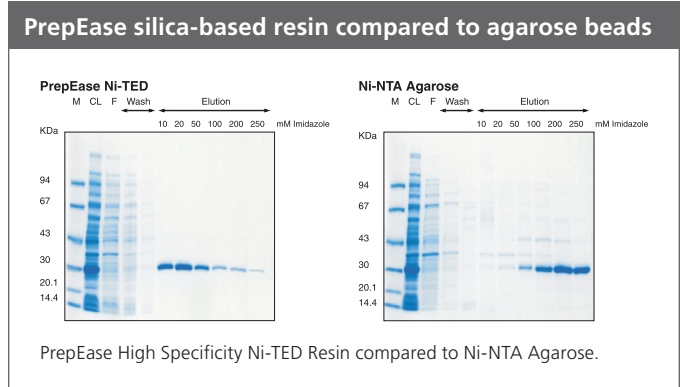
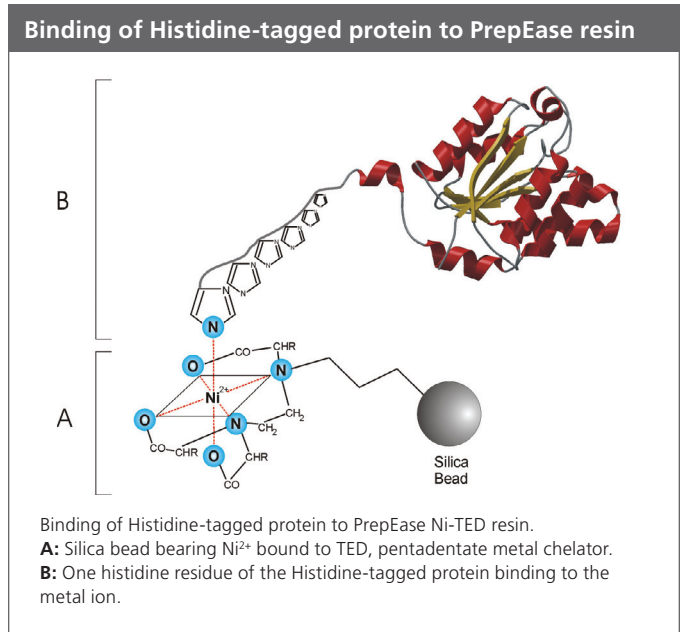
#### Midi Kit - High Specificity

Binding Capacity up to 2.5 mg  
 Culture Volume up to 150 ml  
 78793 .....50 preps

### PrepEase Histidine-Tagged Protein Purification

#### Maxi Kit - High Specificity

Binding Capacity up to 5.0 mg  
 Culture Volume up to 300 ml  
 78795 .....25 preps



## High Yield Protein Purification

*Designed for fast, convenient and high yield purification of Histidine-tagged proteins*

- High Binding Capacity - due to three-binding sites to Histidine-tagged proteins
- Based on Ni-IDA resin
- 2 times higher binding capacity than PrepEase High Specificity Purification Resin
- Includes PrepEase High Yield Histidine-Tagged Protein Columns and necessary reagents

### PrepEase Histidine-Tagged Protein Purification Mini Kit - High Yield

Binding Capacity up to 800 µg

Culture Volume up to 30 ml

78801 .....50 preps

### PrepEase Histidine-Tagged Protein Purification Midi Kit - High Yield

Binding Capacity up to 5 mg

Culture Volume up to 200 ml

78803 .....50 preps

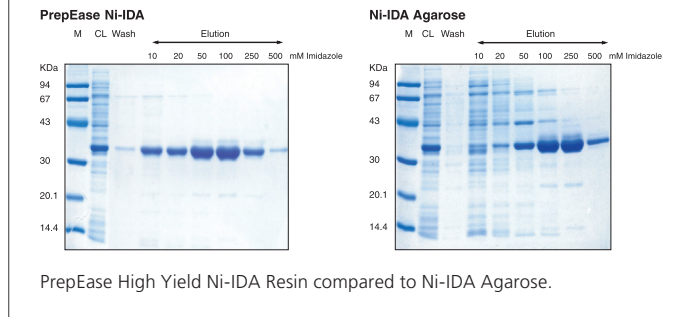
### PrepEase Histidine-Tagged Protein Purification Maxi Kit - High Yield

Binding Capacity up to 10 mg

Culture Volume up to 375 ml

78805 .....25 preps

## PrepEase silica-based resin compared to agarose beads



## Protein Purification Resins

### PrepEase High Specificity Purification Resin [78796]

Binding Capacity up to 10 mg protein per gm of resin

30 gm

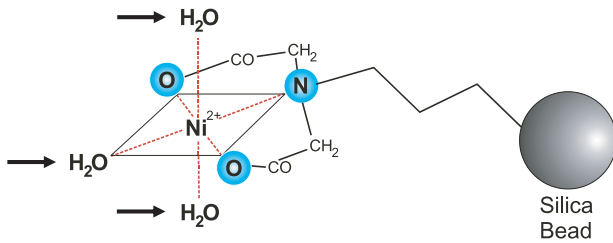
### PrepEase High Yield Purification Resin [78806]

Binding Capacity up to 20 mg protein per gm of resin

30 gm

120 gm

## PrepEase High Yield Ni-IDA Resin



Structure of PrepEase High Yield Ni-IDA Resin complexed with Ni<sup>2+</sup>.

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