

# IPAC Resin

## Technical Specifications:

Matrix	Highly cross-linked agarose, 7.5%
Exclusion Limit (Da)	1.5 X 10 <sup>6</sup>
Particle Size Distribution	32-60 µm
Average Particle Size	40 µm
Metal Ion Capacity	~ 25 µmol Cu <sup>2+</sup> /mL gel ~ 35 µmol Fe <sup>3+</sup> /mL gel
Max. Flow Rate	600 cm/hr
pH Stability	1-14

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# IPAC™ Metal Chelating Resin

- **Multi-purpose IMAC resin for use in the purification of proteins:**
  - Phosphorylated Proteins**
  - Glycoproteins**
  - Calcium-Binding Proteins**
  - Histidine Proteins**
- **Eliminates leaching through the extremely stable binding of metal ions**
- **Novel Metal Chelator**
- **For use in analytical, preparative and production scale separations**
- **Multi-cycle use**

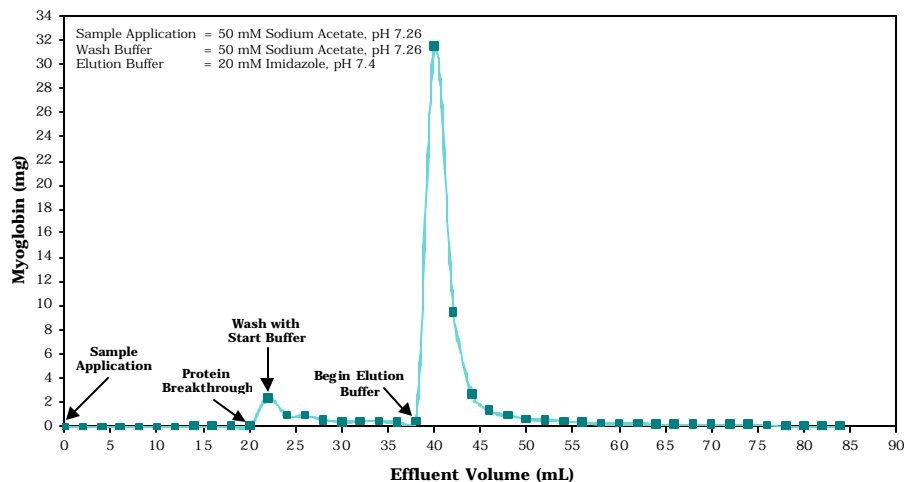
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## Histidine Protein Separations:

### IPAC - Cu<sup>2+</sup> - Horse Myoglobin

Protein Conc. = 2.86 mg/mL

1 BV = 1 mL of IPAC; Flow Rate = 0.1 mL/min



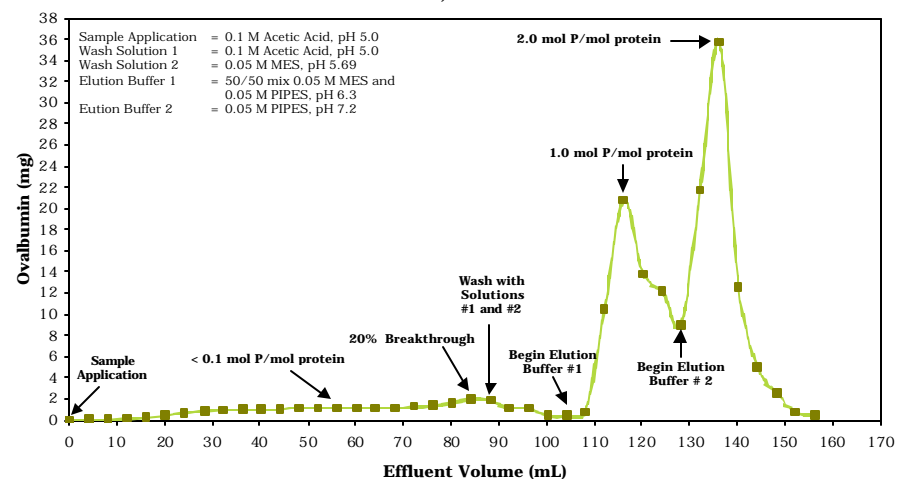
Resin Capacity ~ 45 mg/mL; Protein Recovered >99%  
Cu<sup>2+</sup> Leaching: Below AA Detection Limit (<0.08 ppm)

## Phosphorylated Protein Separations:

### IPAC - Fe<sup>3+</sup> - Ovalbumin

Protein Conc. = 2.23 mg/mL

1 BV = 2.2 mL of IPAC; Flow Rate = 0.1 mL/min



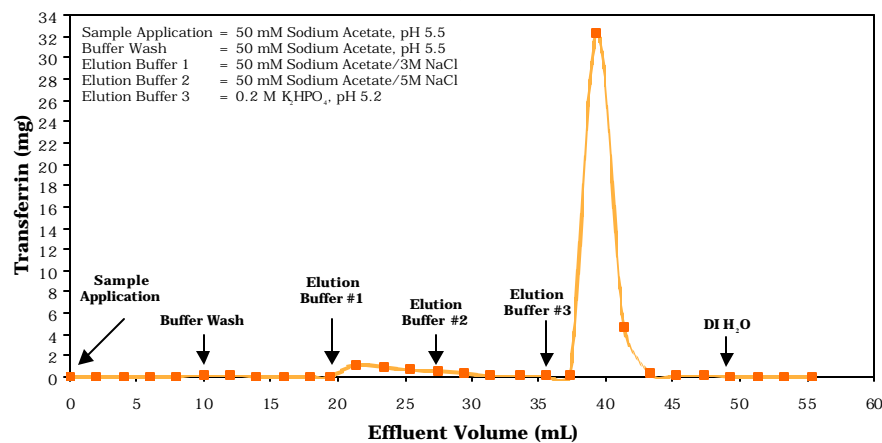
Resin Capacity ~ 70 mg/mL; Protein Recovered >99%  
Fe<sup>3+</sup> Leaching: Below AA Detection Limit (<0.11 ppm)

## Glycoprotein Separations:

### IPAC - Fe<sup>3+</sup> - Transferrin - Cycle 3

Protein Conc. = 4.0 mg/mL

1 BV = 1 mL of IPAC; Flow Rate = 0.2 mL/min



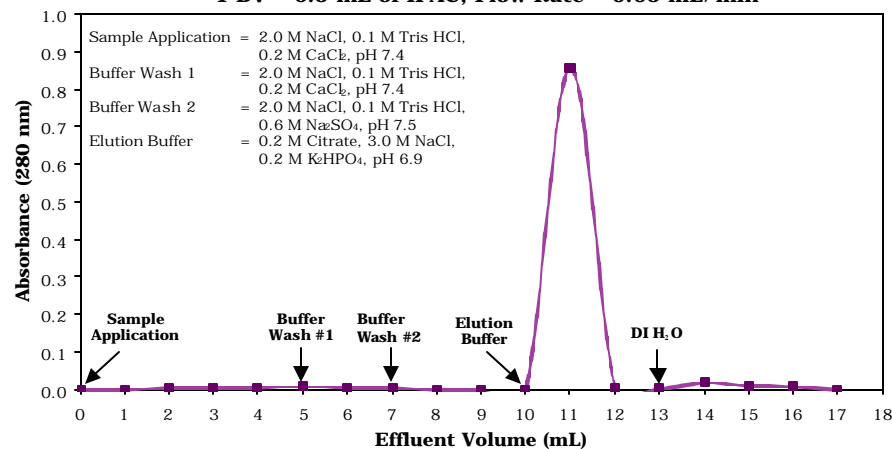
Resin Capacity >40 mg/mL; Protein Recovered >99%  
Fe<sup>3+</sup> Leaching: Below AA Detection Limit (<0.11 ppm)

## Calcium-Binding Protein Separations:

### IPAC - Eu<sup>3+</sup> - Calmodulin

Protein Conc. = 1.1 mg/mL

1 BV = 0.5 mL of IPAC; Flow Rate = 0.05 mL/min



Resin Capacity ~ 10 mg/mL; Protein Recovered >97%  
Eu<sup>3+</sup> Leaching: Below AA Detection Limit (<0.67 ppm)