Ni-NTA Polar IMAC PMMA resin

Cat. No. IMAC-59P **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Ni-NTA Polar IMAC PMMA resin packing is a metal-affinity packing suitable for purifying recombinant proteins with histidine (His) tags, which are widely used in the biotechnology field. The filler is based on hydrophilic polymethacrylate microspheres with A particle size of 30 μm or 60 μm and a pore size of 800 Å, and has high physical and chemical stability. The surface of the filler has a high degree of hydrophilicity, which avoids non-specific adsorption with biological samples to the greatest extent. On the hydrophilic surface, carboxylic acid groups that can chelate polyvalent metal ions are linked with a proprietary connector.
Form	50% (v/v) suspension, preserved in 20% ethanol
Matrix	Hydrophilic polymethacrylate
Average particle size	30 μm; 60 μm
Ligand	NTA
pH stability range	Base filler Polar MC-CA Excel: 1-13; Metal ion chelating filler Polar MC-Ni Excel: 1-13
Capacity	Polar MC30-CA Excel >120 μeq. carboxylic group /mL Polar MC30-Ni Excel 40-60 μeq.Ni++ /mL Polar MC60-CA Excel >100 μeq. carboxylic group /mL Polar MC60-Ni Excel 40-60 μeq.Ni++ /Ml

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Histidine labeled protein (HIStidine protein) loading	Polar MC30-Ni Excel, ~20 mg/mL Polar MC60-Ni Excel, ~15 mg/mL
Operating Temperature	≤40°C
Operating pressure	≤30 MPa (30 bar)
Mobile phase compatibility	Aqueous solution, or a mixture of water and acetonitrile, acetone, or methanol. Commonly used buffers: phosphate, trimethylol aminomethane (Tris) and acetate, also compatible with 6M guanidine hydrochloride, 8M urea, 0.1 M EDTA, 10 mM DTT
Linear flow rate	≤1800 cm/h
Storage	Store at 20% ethanol, 4-25°C.

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