HighSpec 100 Co-NTA Agarose

#Cat: NB-40-00002-10ml Size: 10ml
#Cat: NB-40-00002-50ml Size: 50ml
#Cat: NB-40-00002-250ml Size: 250ml

Description	**HighSpec 100 Co-NTA Agarose is a resin for affinity purification of proteins fused to a 6xHis-tag with a higher specificity and purity than conventional Ni-NTA resins. A high density of immobilized cobalt ions (Co) on the ligand nitrilotriacetic acid (NTA) ensures a high binding capacity.**
Support	6% agarose, highly cross-linked
Form	50% suspension in 20 mM sodium acetate with 20% ethanol, pH 6.6 (e.g. 10 ml will be 5 ml settled resin + 5 ml storage buffer)
Bead size	50-150 µm, spherical
Size exclusion limit	4×10^6 Da
Binding capacity	30 mg protein/ml resin. Binding capacity was determined with a 27 kDa 6xHis-tagged GFP protein. Please note that the binding capacity is protein dependent.
Maximum flow rate	≥1000 cm/h (at 15 cm bed height)
Maximum pressure	≥300 kPa (at 15 cm bed height)
Metal ion capacity	>15 µeqv Co^{2+}/ml
Compatible reagents	100% methanol, 100% ethanol, 8 M urea, 6 M guanidinium hydrochloride, 30% (v/v) acetonitrile, 1 M NaOH
Application	The suspension can be used for packing of gravity flow columns since the resin is optimized for column affinity chromatography, rather than for batch purification. To pack a column with 1 ml resin bed volume, 2 ml 50% suspension are necessary.
Stability	2 years after shipping
Storage	2-8 °C. Short-term: in neutral buffer (e.g. 50 mM phosphate, pH 7.0); Long-term: in neutral buffer with 20% ethanol
Shipping	Room temperature
Hazards	Product is not classified as hazardous according to (EC) No 1272/2008 [CLP]. A Material Safety Data Sheet is provided.
Manufacturer	Neo Biotech

For research use only

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