Fastback Ni Advance Resin

#Cat: NB-45-00082-10ml Size: 10ml
#Cat: NB-45-00082-25 Size: 25ml
#Cat: NB-45-00082-100ml Size: 100ml

Fastback Ni Advance Resin designed for faster purification of secreted proteins using clarified culture media directly. Nickel ions are carefully loaded onto an agarose matrix via chelating coupled ligand to obtain a stable affinity matrix with a high binding capacity for histidine residues.

Benefits

- Ideal for secreted proteins and all intracellular protein expression
- Works in your protocol, regardless of sample origin whether eukaryotic (insect,yeast, HEK293 or CHO) and bacteria (*E.coli)*
- Great results faster with fewer steps than conventional workflow - no need to bufferexchange your conditioned media; simply load clarified culture media directly on tothe Ni Advance resin column.
- Keep your buffer in its preferred conditions as Fastback Ni Advance resin is resistantto **EDTA (up to 20mM)** and **DTT (up to 20 mM)**.

Specifications

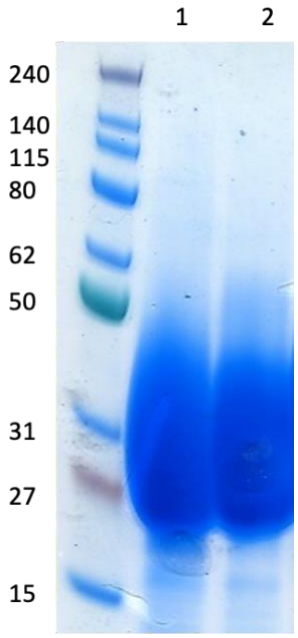
Specificity:	Polyhistidine tag
Matrix:	6% cross-linked Agarose
Coupled ligand:	Chelating ligand
Binding capacity:	80 mg/ml
Bead size:	90 µm
Metal Ion capacity (Cu, Ni)	>75 µmol/ml
Flow rate:	0.25-2 ml/min, max 6.0 ml/min
Maximum pressure:	45 psi
DTT stability (24 hours)	20 mM
EDTA stability (24 hours)	20 mM
Buffer compatibility:	Common aqueous buffers from pH 4-9
Shipping/delivery:	Ambient temperature
Storage:	Equilibration buffer at 2-8°C (short-term) 20% ethanol at 2-8°C (long-term)

Compatibility: Fastback Ni Advance is very stable and can resist the following conditions in most situations: Buffers at pH 4-9, 100% methanol, 100% ethanol, 8 M urea, 6 M guanidinium hydrochloride,30% (v/v) acetonitrile, 20 mM DTT, 20 mM EDTA. Fastback Ni Advance is also stable at pH >9.0 and can be regenerated by alkaline solutions, such as sodium hydroxide.

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Performance data

Figure 1. Comparison between Protein Ark Ni Advance resin and GE Ni Excel Resin

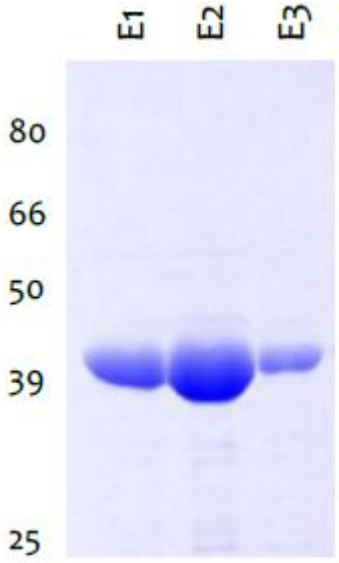


Data provided by Qamar S at Cambridge Institute for Medical Research (CIMR), University of Cambridge, July 2019.

Figure 1. His- tagged Secreted Glycosylated Protein directly captured from 1litre of Expi293 culture medium with 5.0ml of each resin (diffused bands due to protein glycosylation). Protein marker used: Protein Ark Elite Pre-stained Protein Ladder (Cat# NB-45-00067-500).

Lane 1: GE Ni Excel Resin
Lane 2: Protein Ark Fastback Ni Advance Resin

Figure 2. Fastback Ni Advance Resin is resistant to 20mM DTT and 20 mM EDTA



SDS-PAGE of JNK1 expressed in *E.coli* and purified with Fastback Ni Advance resin in the presence of 20mM DTT and 20 mM EDTA. A yield of > 80 mg/ml was obtained.

E1-E3: Eluate Fractions

Ordering Information:

Product	Volume	Order Code
Fastback Ni Advance Resin (10 ml)	10 ml	NB-45-00082-10
Fastback Ni Advance Resin (25 ml)	25 ml	NB-45-00082-25
Fastback Ni Advance Resin (100 ml)	100 ml	NB-45-00082-100