

## ZetaSep Ni-NTA FF6

FPLC column packed with Ni-NTA Agarose Resin.

A cross-linked 6 % beaded agarose IMAC resin for His-tagged protein purification.

<b>Product Code</b>	<b>ZS-1429-M001.0</b>
<b>Quality Parameter</b>	<b>Specification</b>
Packing evaluation asymmetry: (no double peak, no shoulder)	$0.7 \leq As \leq 1.9$
Asymmetry LOT homogeneity:	$CV \leq 8 \%$
<b>Other Product Properties</b>	
Application	For IMAC affinity chromatography. ZetaSep Ni-NTA FF6 is a FPLC column packed with 6 % cross-linked beaded agarose resin, derivatized with charged nickel metal ion ( $Ni^{2+}$ ) nitrilotriacetic acid (NTA) ligand. The solid phase can be used to purify recombinant proteins containing polyhistidine (6xHis) residues via their selective affinity to chelated nickel. After washing, bound proteins are eluted under native or denaturing conditions with either a low pH buffer or with buffer containing imidazole or histidine.
Base matrix material	~100 $\mu m$ (mean bead diameter) 6 % cross-linked, beaded agarose.
Base column material	Polypropylene column housing, 20 $\mu m$ polyethylene frits, 10/32 fittings
Recommended flow rate	0.5 - 2.0 mL/min (~75 - 300 cm/hr)
Maximum operating pressure	3 bar (0.3 MPa, 2.96 atm)
pH stability	3 – 13. The pH stability of the affinity resin will be ultimately dependent on the pH stability of the ligand bound to the resin.
Chemical stability	Zetarose Ni-NTA FF6 is generally tolerant of all commonly used aqueous solutions for protein purification.
Quality parameter of the resin	Nickel ion density $\geq 20 \mu mol / mL$ resin
Storage buffer	20 % ethanol
Storage	+2 to +30 °C. DO NOT FREEZE!
Miscellaneous	---
Notice	The use of this product is strictly limited to trained personnel for professional manufacturing, laboratory, or research purposes. Final Fitness-For-Use must be determined by and is the sole responsibility of the end-user.