

## Ni-NTA PMMA resin

**Cat. No.** Ni-NTA-001M    **Lot. No.** (See product label)

### SPECIFICATION

#### Product Overview

The principle of metal chelate affinity chromatography is to use transition metal ions such as Ni<sup>2+</sup>, Cu<sup>2+</sup>, Zn<sup>2+</sup>, Co<sup>2+</sup> to coordinate with histidine, tryptophan, or cysteine on the protein surface. Due to the different types, quantities, positions and spatial conformations of these amino acids on the protein surface, the affinity forces with metal chelates are different. The purification process can be completed efficiently. The metal chelating affinity chromatography medium produced by Nanwei Technology with its own patented technology can meet the capture requirements in the downstream separation and purification process of bioengineering. Nano metal chelating affinity chromatography was prepared by covering the surface of highly crosslinked polyacrylate microspheres with a hydrophilic film, and then by coupling the chelating groups. The hydrophilic film layer completely covers the surface of the microsphere, which can minimize the non-specific adsorption between the fixed phase and the biomolecules, and improve the recovery rate of the separated substances. The series of products have the characteristics of uniform particle size, low non-specific adsorption and good physicochemical stability, and can be widely used in the capture of label proteins.

<b>Matrix</b>	Polymethyl acrylate (PMMA)
<b>Average particle size</b>	80 μm
<b>Ligand</b>	NTA
<b>Max Pressure</b>	0.5 Mpa

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<b>pH stability range</b>	2-12
<b>CIP in-place cleaning</b>	0.5 M NaOH
<b>Recommended flow rate</b>	150-750
<b>Operating Temperature</b>	4-30°C
<b>Chemical stability</b>	Stabilized aqueous solution, 0.1M HCl, 0.1MNaOH, 2% SDS, 30% isopropyl alcohol, 6M guanidine hydrochloride, 8M urea, 70% ethanol (under Ni removal condition).
<b>Storage</b>	Store at 20% ethanol, 4-25°C.

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