



## High Capacity High Throughput Accelerating Your Purification Process



### IMAC Media with NTA Ligand

Immobilised metal affinity chromatography (IMAC) has been widely employed as a powerful separation approach in the purification of a broad range of proteins and peptides. It is based on the specific interactions between certain transitional metal ions, mostly  $\text{Ni}^{2+}$ ,  $\text{Zn}^{2+}$  and  $\text{Co}^{2+}$  to the exposed amino acid surface chains containing histidine (or cysteine and tryptophane). The presence of several adjacent histidines such as  $(\text{His})_6$ -tag increases the affinity to immobilised metal ions. Increasingly, IMAC resins are employed for the purification of histidine-tagged recombinant proteins expressed in bacteria, yeast and mammalian cells. There are other applications of IMAC resins to purification of certain native non-tagged proteins as well, such as interferons, lectins, antibodies, serum and plasma proteins, peptides and peptide hormones.

BioToolomics supplies three types of IMAC-NTA resins. They are pre-charged with  $\text{Ni}^{2+}$ ,  $\text{Zn}^{2+}$  and  $\text{Co}^{2+}$ , respectively, and are particularly designed and tailored to suit different protein purification activities (e.g. spin, magnetic, gravity flow, packed bed etc). Therefore, you can choose the best IMAC resin with the benefit of great reduction in cost and time. The His-tagged proteins can be purified in just one single step.

#### NTA SepFast™

This resin has the best performance: price ratio for the batch, gravity flow or packed column purifications.

#### Pre-packed Ni-NTA SepFast

Ni SepFast resin is packed in our robust and durable columns. The available column sizes are 1 ml and 5 ml as well as other pre-packed larger columns.

#### Ni-NTA SuperSpin™

This product is designed for the fast and cost-effective purification of small quantity of proteins using a centrifuge.

#### Magnetic IMAC-NTA Resins

This resin is designed for magnetic purification of proteins. The key feature is its low cost and high capacity.



**Distributed by:**

**CliniSciences Group**

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