

# Ni-NTA XPure Agarose Resin

Cat. # P3020-5, P3020-25, P3020-100

- Size:** 5 ml (Cat.# P3020-5), 25 ml (Cat.# P3020-25), 100 ml (Cat.# P3020-100),
- Bead (Geometry, size):** 45 - 165  $\mu\text{m}$
- Cross-Linked:** Yes
- Ligand:** Nilotriacetic acid (NTA)
- Agarose %:** Highly cross-linked 6% agarose
- Binding Capacity:** > 40mg 6xHis-tagged protein/ml medium
- Maximum pressure:** 0.3 MPa, 3 bar
- Volume %:** 50% (v/v) aqueous suspension containing 20% Ethanol
- Application:** Batch, Gravity, MPLC and FPLC-based protein purification. Research use only.
- Introduction:** Ni-NTA XPure Agarose Resin can be used to purify 6xHis-tagged proteins expressed in series of expression vectors, such as E.coli., yeast, insect cells and mammalian cells. Ni-NTA XPure Agarose Resin consists of 90 $\mu\text{m}$  beads of highly cross-linked 6% agarose, to which Nilotriacetic acid (NTA) has been coupled. The chelating group has then been charged with nickel ions ( $\text{Ni}^{2+}$ ). This form is very stable octahedral structure of nickel ions in the center, which can protect the nickel ions from attack of the competitive small molecule. The structure of Ni-NTA is compatible with a certain concentration of reducing agents, denaturing agents, detergents and other additives. Ni-NTA XPure Agarose Resin is highly stable and expand the range of suitable operating conditions.
- The XPure series of resins are made for large scale and fine purification using a high-performance liquid chromatography (HPLC) system.
- Storage Temperature:** 2-8  $^{\circ}\text{C}$

