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Data Sheet

Strep-Tactin XT® Superflow® High Capacity

50% suspension

Cat. No.: 2-4030-002, 2-4030-010, 2-4030-025, 2-4030-500

Lot No.: 4030-

Version: 3.0
Revision Date: 14.07.2020

Description	Strep-Tactin®XT high capacity resin for the purification of Strep-tag®II and Twin-Strep-tag® fusion proteins. Strep-Tactin®XT is a streptavidin variant with optimized binding properties for Twin-Strep-tag® and Strep-tag®II fusion proteins*.
Support	Superflow 6 (6 % agarose, crosslinked)
Form	50 % suspension in buffer, pH 8.0 : 100 mM Tris-HCl pH 8.0, 1 mM EDTA, 150 mM NaCl, 0.02 % sodium azide.
Dynamic Binding Capacity	15 mg protein/ml resin. Dynamic binding capacity was determined with 1 mg/ml mCherry-Twin-Strep-tag® (30 kDa) at a flow rate of 0.5 ml/min. Please note: Binding capacity is protein dependent.
Stability	6 months after shipping
Storage	recommended: 2- 8 °C
Shipping	room temperature
Hazards	Product is not classified as hazardous according to (EC) No 1272/2008 [CLP]. A Material Safety Data Sheet is provided.

Application	**Important note:** For efficient purification results we strongly recommend using column purification instead of batch applications. Even a pre-incubation of resin and lysate prior to filling the resin into a column will lead to decreased protein yields. Further, prolonged batch incubations increase the risk of proteolytic degradation of the target protein including cleavage of the tag. Batch purification should be performed using Twin-Strep-tag® in combination with MagStrep“type3”XT beads only.
Elution	Biotin Elution Buffer BXT (Buffer BXT): 100 mM Tris-HCl pH 8.0, 150 mM NaCl, 1 mM EDTA, 50 mM Biotin
Regeneration	It is recommended to regenerate the column by using Strep-Tactin®XT Regeneration Buffer (3 M MgCl2, Buffer XT-R Cat. No. 2-1045-250). Alternatively, freshly prepared 10 mM NaOH can be used.

* Voss, S. & Skerra, A. (1997) Mutagenesis of a flexible loop in streptavidin leads to higher affinity for the *Strep*-tag II peptide and improved performance in recombinant protein purification. *Protein Eng.* 10, 975-982.

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