Data Sheet

Strep-Tactin® Sepharose®

50% suspension

Cat. No.: 2-1201-002, 2-1201-010, 2-1201-025, 2-1201-500

Lot No.: 1201-

Version: 11.3
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Description	Immobilized streptavidin variant called Strep-Tactin® (5 mg/ml resin) which has been especially optimized for the purification of Strep-tag®II fusion proteins*.
Support	Sepharose 4 FF, 4 % agarose
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.
Biotin binding activity	> 300 nmol/ml resin
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:** To allow an efficient Strep-tag®/Strep-Tactin® binding we strongly recommend using column purification instead of batch applications for proteins fused to Strep-tag®II. It is crucial that protein binding takes place on the column. Even a pre-incubation of resin and lysate prior to filling the resin into a column will lead to decreased protein yields. Batch purification should be performed using Twin-Strep-tag® in combination with MagStrep “type3” XT beads only. Further, prolonged batch incubations increase the risk of proteolytic degradation of the target protein including cleavage of the tag.
Elution	Strep-Tactin® Elution Buffer with Desthiobiotin (Buffer E), pH 8.0: 100 mM Tris-HCl, 150 mM NaCl, 1 mM EDTA, 2.5 mM desthiobiotin It may be advantageous to use 5-10 mM desthiobiotin to get the target protein eluted at higher concentration.
Regeneration	Strep-Tactin® Regeneration Buffer with HABA; Buffer R If HABA cannot be efficiently removed from Strep-Tactin Sepharose by using Buffer W, we recommend using Buffer W at pH 10.5 (or alternatively 100 mM Tris base) for efficient removal of HABA.

* 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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