

Data Sheet

Strep-Tactin®XT Superflow® Cartridge

Cat. No.: 2-4021-001, 2-4022-001

Version: 5.0

Lot No.: 4021-

Revision Date: 14.07.2020

Description	Ready-to-use cartridge with Strep-Tactin®XT Superflow® 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 Strep-tag® fusion proteins. These cartridges are primarily designed for use with chromatography workstations using 10-32 connections. However they can also be operated with other workstations, with syringes or with peristaltic pumps by the use of common adapters which are also available at IBA. Please inquire.
Support	Superflow® 6 (6 % agarose, crosslinked)
Form	Pre-packed in buffer, pH 8.0: 100 mM Tris-HCl pH 8.0, 1.5 M (NH ₄) ₂ SO ₄ , 150 mM NaCl, 1 mM EDTA, 0.02 % sodium azide.
Biotin binding capacity	>300 nmol/ml resin
Stability	6 months after shipping
Storage	recommended: 2°C - 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 notes: To prevent damage to the column body, please be careful not to overly tighten the fittings. Cartridges do not generate significant back pressure which makes the use of flow restrictors superfluous. Therefore, IBA recommends no use of flow restrictors to avoid inhomogeneity resulting from buffer changes during chromatography. Any entrapped gas appearing during shipment or storage is no quality defect and can be easily removed by rinsing the column with several volumes of degassed Buffer W.		
Recommended flow rate	cartridge volume	physical dimension	flow rate
	1 ml cartridge (2-4021-001)	0.7 cm (innerdiameter) x 2.5 cm height	0.5-1 ml/min or 0.3-1 drop/sec*
	5 ml cartridge (2-4022-001)	1.6 cm (i.d.) x 2.5 cm h.	1-3 ml/min or 1 – 3 drops/sec*
Pressure stability	Cartridge body: 3 bar; Superflow® 6 Resin: 9.6 bar		

For research use only

Important licensing information

This product is based on Strep-Tactin® XT technology covered by intellectual property (IP) rights and on completion of the sale IBA grants respective Limited Use Label Licenses to purchaser. IP rights and Limited Use Label Licenses for said technology are further described and identified at <http://www.iba-lifesciences.com/patents.html> or upon inquiry at info@iba-lifesciences.com or at IBA GmbH, Rudolf-Wissell-Str. 28, 37079 Goettingen, Germany. By use of this product the purchaser accepts the terms and conditions of all applicable Limited Use Label Licenses.

Trademark information

The owners of trademarks marked by “®” or “TM” are identified at <http://www.iba-lifesciences.com/patents.html>. Registered names, trademarks, etc. used in this document, even when not specifically marked as such, are not to be considered unprotected by law.

Elution	Biotin Elution Buffer BXT (Buffer BXT), pH 8.0: 100 mM Tris-HCl, 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 MgCl ₂ , Buffer XT-R Cat. No. 2-1045-250). Alternatively, freshly prepared 10 mM NaOH can be used.

*The drop/sec value depends on several parameters (diameter of the outlet, viscosity of the solution etc) and, therefore, has to be determined one-time for each individual setting. Since column bodies are pressure resistant and can tolerate 3bar the columns can be used with a flow restrictor.



Go digital and help the environment. Please download all up-to-date manuals, protocols and other material from <http://www.iba-lifesciences.com/download-area.html>.