

Data Sheet

Strep-Tactin® Superflow® high capacity cartridge

Cat. No.: 2-1239-001, 2-1240-001

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Description	Strep-Tactin® Superflow® high capacity cartridges contain a 6% agarose coupled with a higher density of the streptavidin variant Strep-Tactin® compared to Strep-Tactin® Superflow®. The cartridges are applicable for purification of Strep-tag®II or Twin-Strep-tag® fusion proteins via chromatography workstations using 10-32 connections, syringes, or peristaltic pumps. Narrow Fingertight Connectors (Cytiva Product 28401081) cannot be connected to these cartridges. Instead, use Fingertight Connectors for Äkta® systems (Cytiva Product 18111255).
Support	6% agarose, crosslinked
Form	Pre-packed in buffer (100 mM Tris/HCl pH 8.0, 150 mM NaCl, 1 mM EDTA, 0.02% sodium azide)
Bead size	60-160 µm, spherical
Dynamic binding capacity	7 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 that the binding capacity is protein dependent.
Stability	6 months after shipping
Storage	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	The cartridges do not generate significant back pressure making the use of flow restrictors superfluous. Any entrapped gas, appearing after shipment or storage, is not a quality defect and can be easily removed by rinsing the cartridge with several volumes of degassed 1x Buffer W. Elution: 10x Buffer E (Cat. No. 2-1000-025, 1 M Tris/HCl pH 8.0, 1.5 M NaCl, 10 mM EDTA, 25 mM desthiobiotin). Regeneration: 10x Buffer R (Cat. No. 2-1002-100, 1 M Tris/HCl pH 8.0, 1.5 M NaCl, 10 mM EDTA, 10 mM HABA (2-[4'-hydroxy-benzeneazo]benzoic acid))			
	Cartridge volume	Physical dimension	Flow rate	Pressure stability
	1 ml (2-1239-001)	Inner diameter: 0.7 cm Height: 2.5 cm	0.5-1 ml/min	Cartridge body: 6.5 bar Resin: 9.6 bar
	5 ml (2-1240-001)	Inner diameter: 1.6 cm Height: 2.5 cm	1-3 ml/min	Cartridge body: 10 bar Resin: 9.6 bar

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