

Data Sheet

# Strep-Tactin® Superflow® high capacity cartridge

Cat. No.: 2-1237-001, 2-1238-001

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<b>Description</b>	Strep-Tactin® Superflow® high capacity cartridges contain a 6% agarose coupled with a higher density of the streptavidin variant Strep-Tactin®, which leads to a 2-fold higher yield of purified protein 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.
<b>Support</b>	6% agarose, crosslinked
<b>Form</b>	Pre-packed in buffer (100 mM Tris/HCl pH 8.0, 150 mM NaCl, 1 mM EDTA, 0.02% sodium azide)
<b>Bead size</b>	60-160 µm, spherical
<b>Dynamic binding capacity</b>	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.
<b>Stability</b>	6 months after shipping
<b>Storage</b>	2-8 °C
<b>Shipping</b>	Room temperature
<b>Hazards</b>	Product is not classified as hazardous according to (EC) No 1272/2008 [CLP]. A Material Safety Data Sheet is provided.

<b>Application</b>	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 (2-1237-001)	Inner diameter: 0.7 cm Height: 2.5 cm	0.5-1 ml/min	Cartridge body: 3 bar Resin: 9.6 bar
	5 ml (2-1238-001)	Inner diameter: 1.6 cm Height: 2.5 cm	1-3 ml/min	Cartridge body: 3 bar Resin: 9.6 bar

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