

IBA'S NEW AGAROSE RESIN: STREP-TACTIN® 4FLOW® HIGH CAPACITY

Strep-Tactin® 4Flow® high capacity replaces

- › Strep-Tactin® Sepharose®
- › Strep-Tactin® Superflow®
- › Strep-Tactin® Superflow® high capacity

providing identical performance and unifying the resins.

Strep-Tactin® Sepharose®
(4% agarose)

Strep-Tactin® Superflow®
(6% agarose)

Strep-Tactin® Superflow®
high capacity (6% agarose)

**Strep-Tactin® 4Flow®
high capacity
(4% agarose)**

Strep-Tactin® 4Flow® high capacity consists of a low concentrated (4%) and pressure stable agarose coupled with high Strep-Tactin® density. These specifications lead to

- › high protein binding capacity
- › applicability for FPLC work stations
- › high yields for all protein classes and especially large proteins.



EXCELLENT PURITY AND ENHANCED BINDING CAPACITY WITH STREP-TACTIN® 4FLOW® HIGH CAPACITY

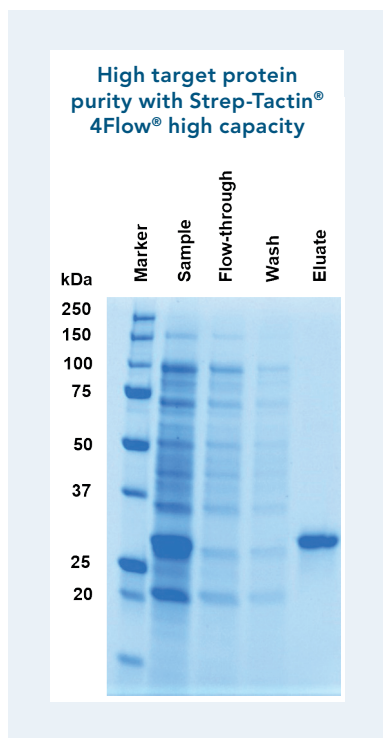


Fig 1. Purification of GFP-Twin-Strep-tag® from *E.coli* lysate using Strep-Tactin® 4Flow® high capacity.

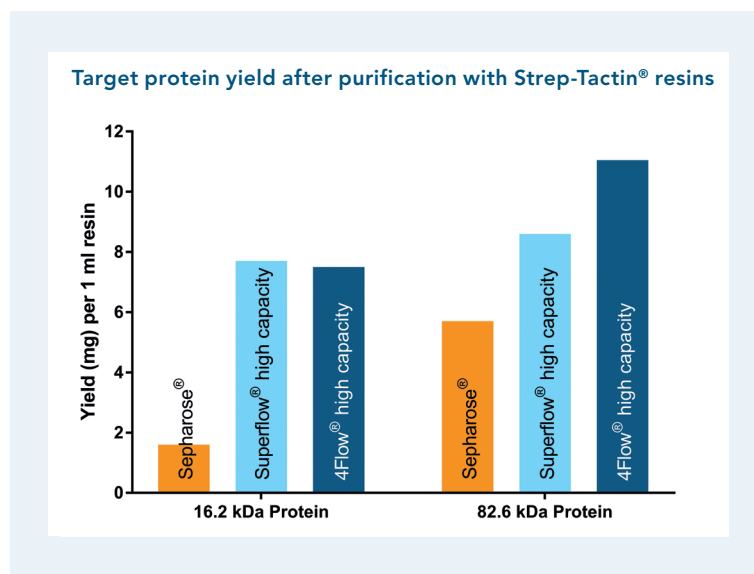


Fig. 2. The increased density of Strep-Tactin® molecules immobilized on Strep-Tactin® 4Flow® high capacity translates to an overall high binding capacity compared to Strep-Tactin® Sepharose® and Strep-Tactin® Superflow® high capacity.

While Strep-Tactin® Superflow® may exhibit a decline in binding capacity for large proteins due to its 6% agarose matrix, Strep-Tactin® 4Flow® high capacity maintains a consistent high binding capacity for all proteins independent from their size.

STREP-TACTIN® 4FLOW® HIGH CAPACITY UNIFIES FEATURES OF PREVIOUS RESINS

Matrix	Strep-Tactin® Superflow®	Strep-Tactin® Sepharose®	Strep-Tactin® 4Flow®
Bead structure	6% agarose, crosslinked	4% agarose, crosslinked	4% agarose, highly crosslinked
Bead size	60-160 µm, spherical	45-165 µm	50-150 µm, spherical
Exclusion limit	6 x 10 ⁶ Da	~3 x 10 ⁷ Da	3 x 10 ⁷ Da
Recommended flow rate	0.5-1 ml/min	gravity flow	0.5-1 ml/min
pH range for protein binding	7-8	7-8	7-8
Max pressure	9.6 bar	gravity flow	3.5 bar
Eluent	desthiobiotin	desthiobiotin	desthiobiotin
Regeneration buffer	Buffer R	Buffer R	100 mM NaOH

