

bioMarke 2016



Distributor
GE Healthcare



Protein purification information base

Visit the protein purification community.

Discussion forum – share insights and ask questions related to protein purification

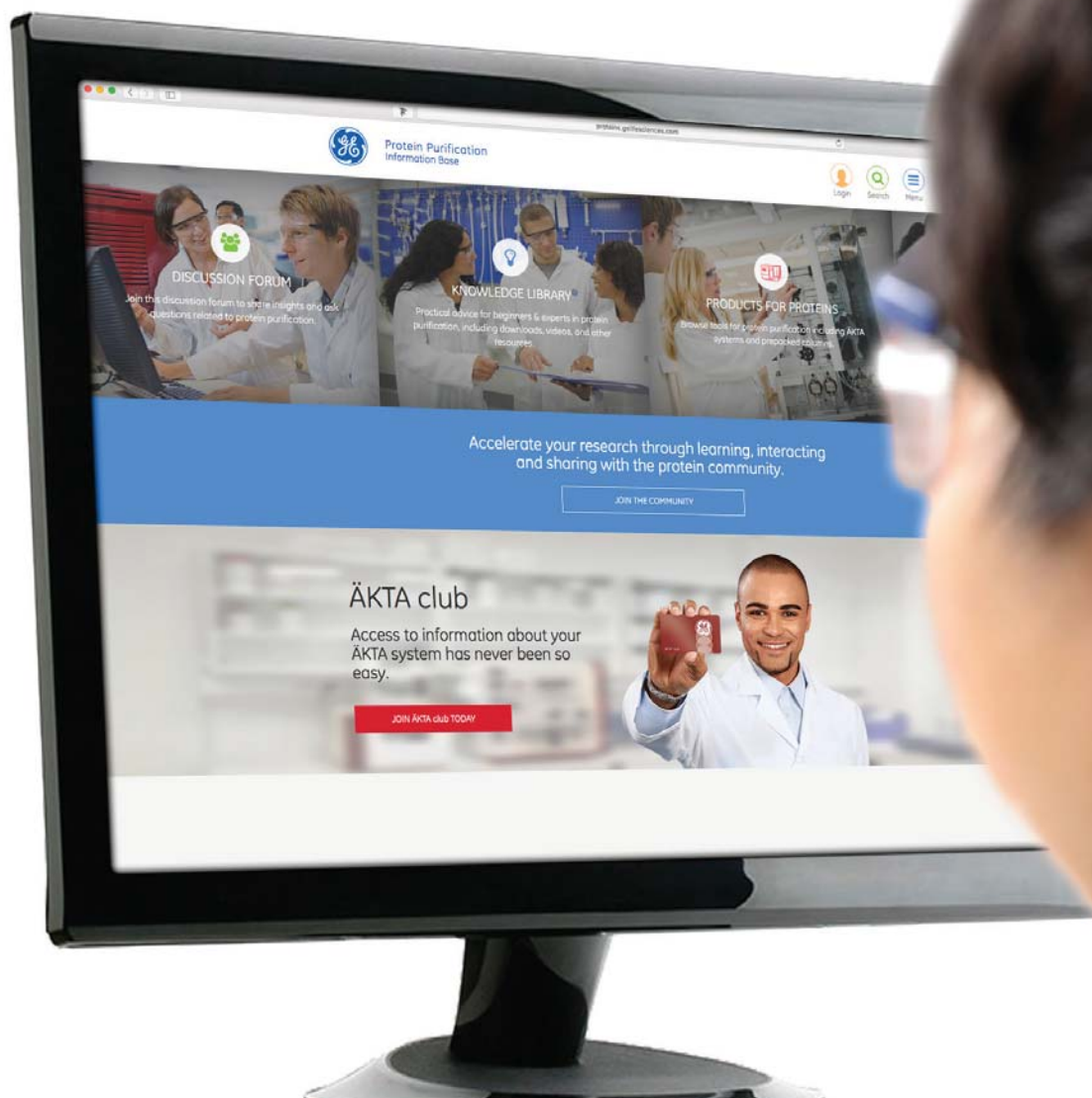
Knowledge library – including downloads, videos and other resources

Products for proteins – browse tools for protein purification including ÄKTA™ systems and prepacked columns

Protein blog and news – keep up to date with latest news and events

ÄKTA club – access to information about your ÄKTA system has never been so easy.

proteins.gelifsciences.com



New generation size exclusion chromatography (SEC) columns

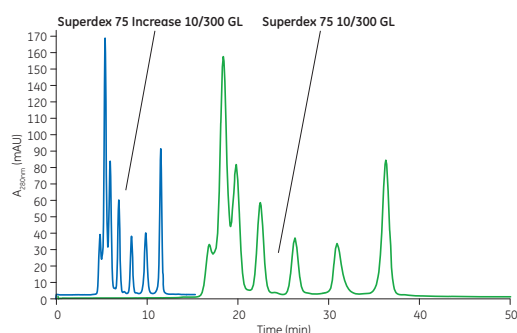
SEC columns from GE Healthcare, called "Increase", are the new generation of SEC columns prepacked with agarose-based media offering higher resolution and shorter run times than their predecessors. They comprise smaller, more rigid beads with a narrower particle size distribution and a higher selectivity than their predecessors. These media are available in three different prepacked column formats for sample volumes between 4 µl and 500 µl, suitable for both preparative and analytical purposes.

Superdex™ 75 Increase

Available summer 2016

Superdex 75 Increase is designed for small-scale preparative purification and analysis of recombinant tagged or other proteins with molecular weights from M_r 3000 up to 70 000. Compared with predecessor Superdex 75, new Superdex 75 Increase offers:

- Runtime reduced down to one third with maintained resolution for results faster.
- Up to 50% higher resolution for improved purity and analysis results.
- Higher lot-to-lot consistency.



Superdex 75 Increase enables reduced runtime down to one third compared with Superdex 75.

Superdex 200 Increase

Superdex 200 Increase columns are excellent for detection and separation of antibody monomers, dimers, and aggregates in monoclonal antibody (MAb) preparations.

Superose™ 6 Increase

Superose 6 Increase columns are designed for purification of large proteins and protein complexes.



Product description	Ordering quantity	Ordering code	Price (£)
Superdex 75 Increase 10/300 GL <i>Available summer 2016</i>	1 pack	* See note	1,235.07
Superdex 75 Increase 5/150 GL <i>Available summer 2016</i>	1 pack	* See note	1,235.07
Superdex 75 Increase 3.2/300 <i>Available summer 2016</i>	1 pack	* See note	1,275.60
Superdex 200 Increase 10/300 GL	1 pack	28-9909-44P	1,307.72
Superdex 200 Increase 5/150 GL	1 pack	28-9909-45P	1,307.72
Superdex 200 Increase 3.2/300	1 pack	28-9909-46P	1,350.63
Superose 6 Increase 10/300 GL	1 pack	29-0915-96P	1,269.80
Superose 6 Increase 5/150 GL	1 pack	29-0915-97P	1,269.80
Superose 6 Increase 3.2/300	1 pack	29-0915-98P	1,312.10

* Contact your VWR life science specialist for further details.

Succeed with your antibody and antibody fragment purification

MabSelect SuRe™

For purification of multiple antibodies with minimized cross contamination.

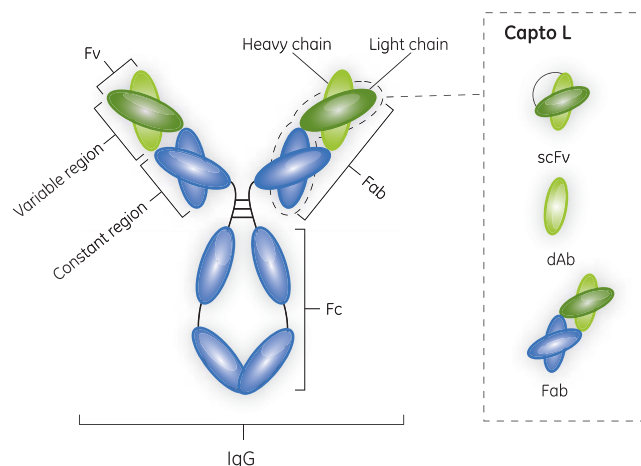
- Alkali-tolerant rProtein A ligand allows for efficient cleaning between antibodies.
- High binding capacity of up to 35 mg human IgG/ml media and fast binding kinetics.
- A single HiTrap™ MabSelect SuRe or HiScreen™ MabSelect™ SuRe column can be used with multiple antibodies with minimized risk of cross contamination.



Capto™ L

Designed for capture of antibodies and antibody fragments.

- High dynamic binding capacity and selectivity for a broad range of antibody fragments such as Fabs, single-chain variable fragments (scFv), and domain antibodies (Dabs).
- Rigid base matrix allowing for high flow rates and low ligand leakage.
- Recombinant protein L ligand which has strong affinity to the variable region of antibody kappa light chains.



Product description	Ordering quantity	Ordering code	Price (£)
HiTrap MabSelect SuRe, 1 × 1 ml	1 pack	29-0491-04P	154.80
HiTrap MabSelect SuRe, 5 × 1 ml	1 pack	11-0034-93P	605.46
HiTrap MabSelect SuRe, 1 × 5 ml	1 pack	11-0034-94P	568.48
HiTrap MabSelect SuRe, 5 × 5 ml	1 pack	11-0034-95P	2,398.62
HiScreen MabSelect SuRe	1 pack	28-9269-77P	577.08
MabSelect SuRe, 25 ml	1 pack	17-5438-01P	1,872.55
MabSelect SuRe, 200 ml	1 pack	17-5438-02P	4,102.95
HiTrap Protein L, 1 × 5 ml	1 pack	17-5478-15P	423.14
HiTrap Protein L, 5 × 1 ml	1 pack	17-5478-51P	441.19
HiTrap Protein L, 5 × 5 ml	1 pack	17-5478-55P	1,744.14
HiScreen Capto L	1 pack	17-5478-14P	424.86
Capto L, 5 ml	1 pack	17-5478-06P	334.99
Capto L, 25 ml	1 pack	17-5478-01P	1,282.11
Capto L, 200 ml	1 pack	17-5478-02P	2,076.55

Protein A Sepharose™ HP and Protein G Sepharose HP

For fast and simple purification of monoclonal and polyclonal antibodies.

- High purity obtained in one single step.
- High binding capacity of at least 20 mg IgG/ml media and fast binding kinetics.
- HiTrap is a convenient format designed for use with a syringe, a peristaltic pump, or a chromatography system.



Species	Subclass	Protein G binding	Protein A binding
Human	IgA	—	variable
	IgD	—	—
	IgE	—	—
	IgG ₁	++++	++++
	IgG ₂	++++	++++
	IgG ₃	++++	—
	IgG ₄	++++	++++
Human	IgM	—	variable
	IgY	—	—
Avian egg yolk	IgY	—	—
Cow		++++	++
Dog		+	++
Goat		++	—
Guinea pig	IgG ₁	++	++++
Hamster		++	+
Horse		++++	++
Koala		+	—
Llama		+	—
Monkey (rhesus)		++++	++++
Mouse	IgG ₁	++++	+
	IgG _{2a}	++++	++++
	IgG _{2b}	+++	+++
	IgG ₃	+++	++
	IgM	—	variable
Pig		+++	+++
Rabbit		+++	++++
Rat	IgG ₁	+	—
	IgG _{2a}	++++	—
	IgG _{2b}	++	—
	IgG ₃	++	+
Sheep		++	+/-

++++ = strong binding; ++ = medium binding; — = weak or no binding

Product description	Ordering quantity	Ordering code	Price (£)
HiTrap Protein A HP, 1 × 1 ml	1 pack	29-0485-76P	93.80
HiTrap Protein A HP, 2 × 1 ml	1 pack	17-0402-03P	168.56
HiTrap Protein A HP, 5 × 1 ml	1 pack	17-0402-01P	374.97
HiTrap Protein A HP, 1 × 5 ml	1 pack	17-0403-01P	350.03
HiTrap Protein A HP, 5 × 5 ml	1 pack	17-0403-03P	1,602.23
HiTrap rProtein A FF, 2 × 1 ml	1 pack	17-5079-02P	201.25
HiTrap rProtein A FF, 5 × 1 ml	1 pack	17-5079-01P	434.32
HiTrap rProtein A FF, 1 × 5 ml	1 pack	17-5080-01P	408.51
HiTrap rProtein A FF, 5 × 5 ml	1 pack	17-5080-02P	1,832.72
rProtein A Sepharose FF, 5 ml	1 pack	17-1279-01P	308.46
rProtein A Sepharose FF, 25 ml	1 pack	17-1279-02P	1,263.20
rProtein A Sepharose FF, 200 ml	1 pack	17-1279-03P	2,635.19
HiTrap Protein G HP, 1 × 1 ml	1 pack	29-0485-81P	106.20
HiTrap Protein G HP, 2 × 1 ml	1 pack	17-0404-03P	196.95
HiTrap Protein G HP, 5 × 1 ml	1 pack	17-0404-01P	423.99
HiTrap Protein G HP, 1 × 5 ml	1 pack	17-0405-01P	401.63
HiTrap Protein G HP, 5 × 5 ml	1 pack	17-0405-03P	1,814.67
Protein G Sepharose 4 FF, 5 ml	1 pack	17-0618-01P	338.30
Protein G Sepharose 4 FF, 25 ml	1 pack	17-0618-02P	1,317.03
Protein G Sepharose 4 FF, 200 ml	1 pack	17-0618-05P	2,076.74

Capto IEX media for improved performance

HiTrap Capto IEX Selection Kit

HiTrap Capto IEX Selection Kit is designed for convenient media screening and optimization studies. The five Capto IEX media in prepacked 1 ml HiTrap columns have a range of ion exchange properties.

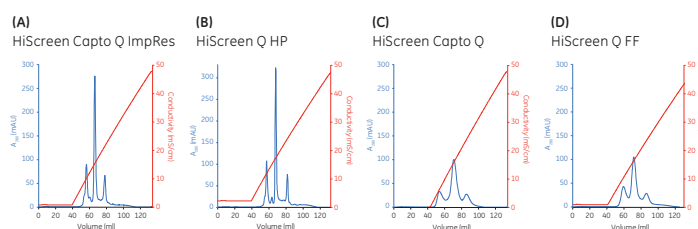
- Capto Q is a strong anion exchanger.
- Capto DEAE is a weak anion exchanger.
- Capto S is a strong cation exchanger.
- Capto MMC is a multimodal cation exchanger that is functional at high as well as at low ionic strength.
- Capto adhere is a multimodal strong anion exchanger mainly designed for post-protein A purification of monoclonal antibodies.



Capto S, Capto Q, Capto SP ImpRes and Capto Q ImpRes

By using Capto media on HiScreen column, you can get improved performance compared to that obtained with previous generations of IEX Q Sepharose and SP Sepharose media.

- Quicker runs by moving from Sepharose HP media to Capto ImpRes media and from Sepharose FF media to Capto media with maintained resolution.
- Improved resolution by moving from Q Sepharose FF media to Capto Q ImpRes media with maintained flow rate.



The smaller bead size gives (A) Capto Q ImpRes and (B) Q Sepharose High Performance improved resolution compared with (C) Capto Q and (D) Q Sepharose Fast Flow. (A) HiScreen Capto Q ImpRes (2.3 ml/min) and (C) HiScreen Capto Q (3.1 ml/min) enables reduced runtime compared to (B) HiScreen Q HP (1.2 ml/min) and (D) HiScreen Q FF (2.3 ml/min).

Product description

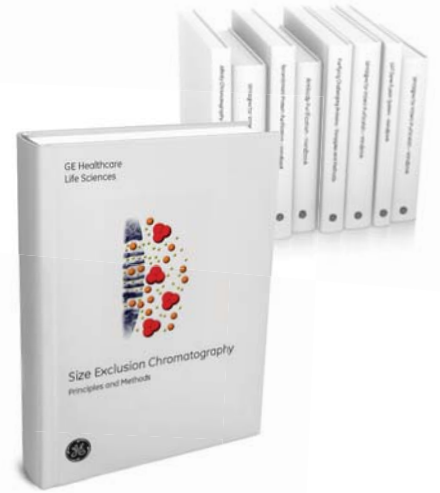
Product description	Ordering quantity	Ordering code	Price (£)
HiTrap Capto IEX Selection Kit	1 pack	28-9343-88P	128.52
HiTrap Capto Q, 5 × 1 ml	1 pack	11-0013-02P	104.19
HiTrap Capto Q, 5 × 5 ml	1 pack	11-0013-03P	251.18
HiScreen Capto Q	1 pack	28-9269-78P	63.61
HiTrap Capto Q ImpRes, 5 × 1 ml	1 pack	17-5470-51P	143.79
HiTrap Capto Q ImpRes, 5 × 5 ml	1 pack	17-5470-55P	366.38
HiScreen Capto Q ImpRes	1 pack	17-5470-15P	79.76
Capto Q, 25 ml	1 pack	17-5316-10P	67.35
Capto Q, 100 ml	1 pack	17-5316-02P	207.88
Capto Q ImpRes, 25 ml	1 pack	17-5470-10P	101.25
Capto Q ImpRes, 100 ml	1 pack	17-5470-02P	325.68
HiTrap Capto S, 5 × 1 ml	1 pack	17-5441-22P	106.21
HiTrap Capto S, 5 × 5 ml	1 pack	17-5441-23P	251.18
HiScreen Capto S	1 pack	28-9269-79P	63.61
HiTrap Capto SP ImpRes, 5 × 1 ml	1 pack	17-5468-51P	143.79
HiTrap Capto SP ImpRes, 5 × 5 ml	1 pack	17-5468-55P	366.38
HiScreen Capto SP ImpRes	1 pack	17-5468-15P	79.76
Capto S, 25 ml	1 pack	17-5441-10P	66.70
Capto S, 100 ml	1 pack	17-5441-01P	207.88
Capto SP ImpRes, 25 ml	1 pack	17-5468-10P	100.50
Capto SP ImpRes, 100 ml	1 pack	17-5468-02P	330.00

> Selected handbooks

GE Healthcare Life Sciences offers handbooks covering a wide range of techniques and applications including antibody purification, strategies for protein purification and size exclusion chromatography.

Download from the link below:

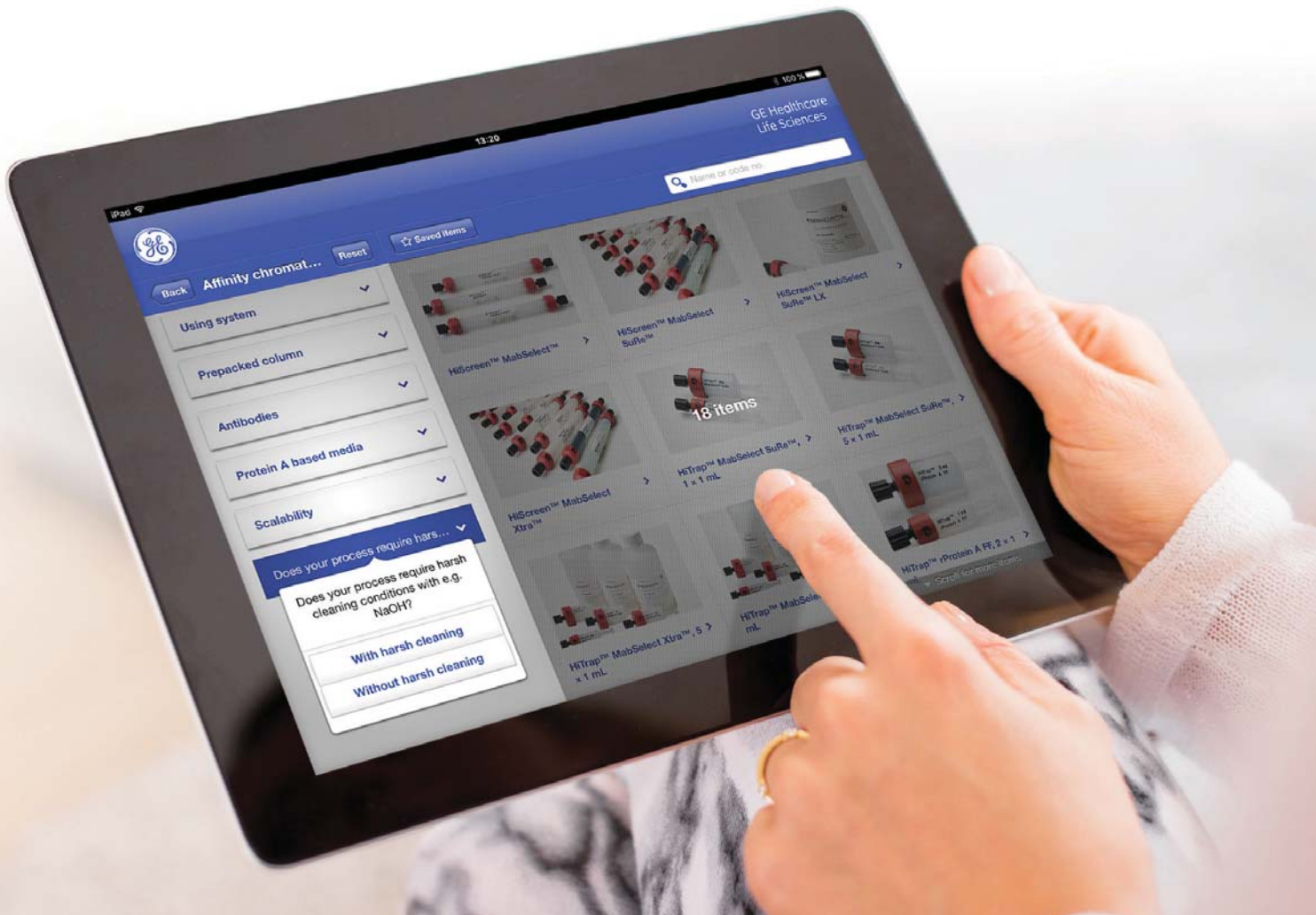
gelifesciences.com/handbooks



> Purify App – column and media interactive selection tool

The Purify app simplifies the job of choosing the right chromatography media and columns for your application. Based upon answers to certain questions, the tool will guide you to a recommended product. From there they can follow the link to the product page for more information.

gelifesciences.com/purify



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