Superdex™ 75 Increase, new generation size exclusion chromatography (SEC) columns for recombinant proteins

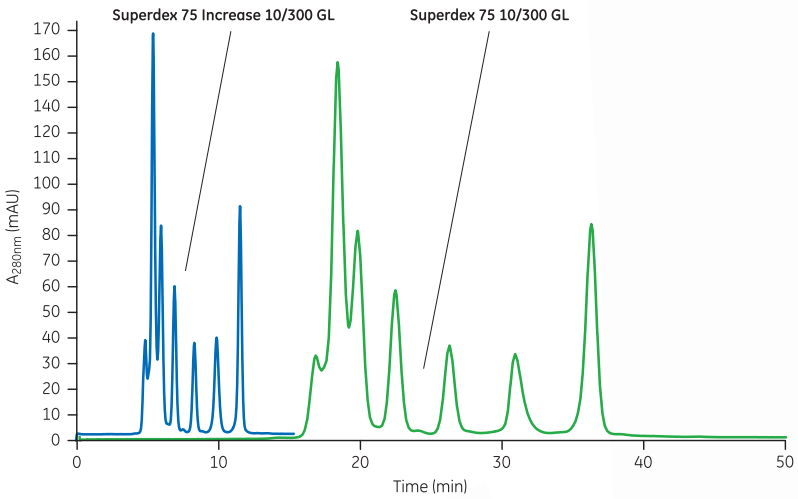
GE expands the range of new generation SEC columns

Our new generation columns called "Increase" offer higher resolution and shorter run times than their predecessors.

Superdex 75 Increase is designed for small-scale preparative purification and analysis of recombinant tagged or other proteins with molecular weights (M_r) from 3000 up to 70 000.

Comprising smaller, more rigid beads with a narrower particle size distribution and a higher selectivity, Superdex 75 Increase columns offer:

- 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

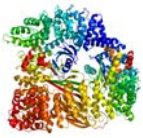


Superdex 75 Increase enables reduced runtime down to one third compared with Superdex 75.

With the addition of Superdex 75 Increase, you will have three choices of the new generation SEC media for small-scale preparative purification and analysis (sample volume 4 to 500 µl):

Superdex 75 Increase
Recombinant tagged proteins
Fractionation range
M_r 3000 to 70 000

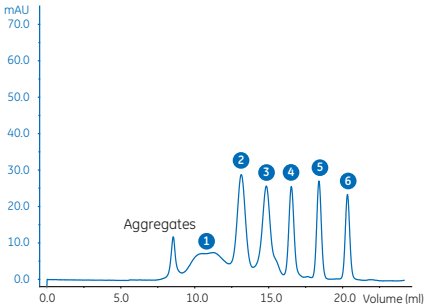
Superdex 200 Increase
MAb and other antibodies
Fractionation range
M_r 10 000 to 600 000



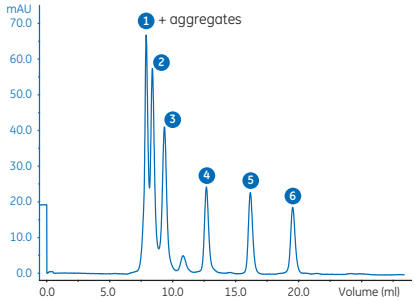
Superose™ 6 Increase
Larger proteins and protein complexes*
Fractionation range
M_r 5000 to 5 000 000

The fractionation ranges of the three different chromatography media complement each other

Superose 6 Increase 10/300 GL



Superdex 200 Increase 10/300 GL

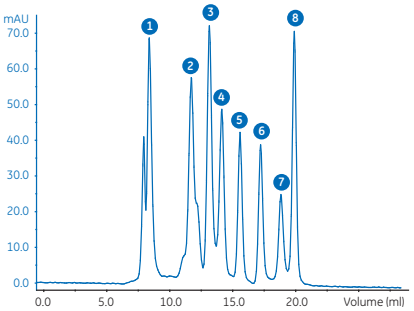


Sample:

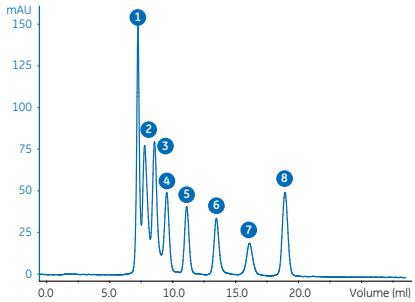
1. IgM (M_r 970 000)
2. Thyroglobulin (M_r 669 000)
3. Ferritin (M_r 440 000)
4. BSA (M_r 66 000)
5. Myoglobin (M_r 17 600)
6. Vitamin B_{12} (M_r 1300)

Comparison between Superose 6 Increase and Superdex 200 Increase. Superose 6 Increase gives higher resolution for proteins with $M_r \geq 440\,000$, while proteins of lower molecular weight are better resolved on Superdex 200 Increase.

Superdex 200 Increase 10/300 GL



Superdex 75 Increase 10/300 GL



Sample:

1. Thyroglobulin (M_r 669 000)
2. Aldolase (M_r 158 000)
3. Conalbumin (M_r 75 000)
4. Ovalbumin (M_r 44 000)
5. Carbonic anhydrase (M_r 29 000)
6. Cytochrome C (M_r 12 300)
7. Aprotinin (M_r 6500)
8. Vitamin B_{12} (M_r 1300)

Comparison between Superdex 200 Increase and Superdex 75 Increase. Superdex 75 Increase gives higher resolution of proteins with $M_r \leq 44\,000$. Superdex 200 Increase shows better resolution for proteins above this molecular weight.

Ordering information

Dimensions (mm)	Superdex 75 Increase VWR Cat. No.	Superdex 200 Increase VWR Cat. No.	Superose 6 Increase VWR Cat. No.
10 × 300	CA75802-902	CA11029-390	CA10192-228
5 × 150	CA75802-916	CA11029-392	CA10192-230
3.2 × 300	CA75802-918	CA11029-394	CA10192-226

For additional information, please visit **vwr.com**

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