



Sartobind® SingleSep

Process Scale Membrane Adsorbers Ion Exchange



Sartobind SingleSep ion exchange capsules are designed to remove contaminants at accelerated flow rates. This is a direct result of negligible mass transfer effects and is made possible by the $>3 \mu\text{m}$ microporous membrane. The design allows for robust chromatographic separations and drastically reduced validation costs. SingleSep capsules are used for DNA removal from therapeutic proteins, host cell protein removal and viral clearance.



- Ready-to-use format
- Simple and fast set up
- No trouble with air entrapment, channeling or bed cracking
- Membrane pore size of $> 3 \mu\text{m}$ allows purification of large biomolecules and viruses
- Low unspecific adsorption = less product loss
- Reduced validation costs
- Autoclaving at 121°C for 30 min, one cycle

Quality Control

Sartobind SingleSep capsules are designed, developed and manufactured in accordance with an ISO 9001 certified Quality Management System. They have passed Plastic Class VI, particles and extractables test according to current United States Pharmacopoeia (USP) and are tested for protein binding capacity prior to release. Each package contains a certificate of quality.

Specifications

Membrane

Base material: Stabilized reinforced cellulose

Membrane thickness: $275 \mu\text{m}$

Membranes:

- strong cation exchanger S (sulfonic acid)
- strong anion exchanger Q (quaternary ammonium)

Capsule

Design: cylindric, nominal number of layer: 15

Bed height: 4 mm

Material Capsule: Polypropylene

Operation

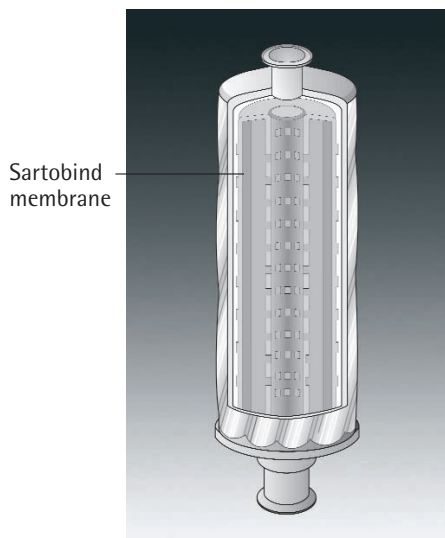
Depyrogenation: 1 N NaOH

Max. pressure: 0.4 MPa (4 bar | 58 psi)

Related products

Sartobind MultiSep
Sartobind MA units laboratory scale

Sartorius Membrane Adsorbers



Technical Data

Order no. capsules	Description	Connector	Nominal protein binding capacity [g]	Bed volume [ml]	Quantity
92IEXQ42D4-00-A	Sartobind Q SingleSep mini capsule	hose barb	0.2	7	4
92IEXS42D4-00-A	Sartobind S SingleSep mini capsule	hose barb	0.2	7	4
92IEXQ42D4-SS-A	Sartobind Q SingleSep mini capsule	sanitary	0.2	7	4
92IEXS42D4-SS-A	Sartobind S SingleSep mini capsules	sanitary	0.2	7	4
92IEXQ42D9-00-A	Sartobind Q SingleSep 5" capsules	hose barb	2	70	4
92IEXS42D9-00-A	Sartobind S SingleSep 5" capsules	hose barb	2	70	4
92IEXQ42D9-SS-A	Sartobind Q SingleSep 5" capsule	sanitary	2	70	4
92IEXS42D9-SS-A	Sartobind S SingleSep 5" capsules	sanitary	2	70	4
92IEXQ42D1-SS	Sartobind Q SingleSep 10" capsule	sanitary	5.28	180	1
92IEXS42D1-SS	Sartobind S SingleSep 10" capsule	sanitary	5.28	180	1

Minimum static binding capacity was measured with bovine serum albumin and hen egg lysozyme: 0.8 mg/cm² for Q and S membranes.

Sartorius AG
 Weender Landstrasse 94-108
 37075 Goettingen, Germany
 Phone +49.551.308.0
 Fax +49.551.308.3289
www.sartorius.com

USA +1.800.3687178
 UK +44.1372.737159
 France +33.1.69192100
 Italy +39.055.634041
 Spain +34.91.3586100
 Japan +81.3.33293366

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 Publication No.: SL-2018-e03091
 Order No.: 85030-519-08