



VIVASCIENCETECHNOLOGY

Sartorius
Ultrafiltration
Family

Vivaspin Ultrafiltration Family – sample concentration up to 20 ml

Vivaspin centrifugal concentrators offer the optimal solution to any concentration or buffer exchange application with their broad range of volume capacities and MWCOs.

Highest flow rates and recoveries are achieved due to their particular vertical membrane design.

Incomparably safe sample handling and convenience is assured by the patented dead-stop technology allowing direct recovery of the concentrate without further respin.

Vivaspin applications

- Concentration of biological samples containing antigens, antibodies, enzymes or nucleic acids
- Concentration of diluted protein samples from chromatography eluates
- Desalting or Diafiltration | Buffer exchange
- Sample concentration for crystallization and NMR spectroscopy
- Removal of very small or large contaminants

Feature	Benefit
Vertical, large membrane design	Fast, minimal membrane blocking
Integrated Dead-Stop-Volume	No risk (to concentrate to dryness)
Low-binding materials	High recovery
No Re-spin necessary	Easy handling, fast
Membrane selection	Highest recovery with extremely low-binding Hydrosart® membrane in Vivaspin 2 and Vivaspin 15R
Broad volume range from 0.6 – 100 ml	High volume flexibility
Wide MWCO range from 2 kDa – 0.2 µm	High MWCO flexibility

Special Devices

Vivascience offers an extended range of membranes to cover the different ultrafiltration requirements which will typically yield recoveries of the concentrated sample in excess of 90% when the starting sample contains over 0.1 mg/ml of the solute of interest.

For highest recovery, select a membrane MWCO which is at least half to one third of the molecular weight of the solute to be retained.

Highest recovery with extremely low binding Hydrosart® membrane

- The membrane of choice for antibody concentration
- MWCO range from 2 kDa – 30 kDa
- Available in Vivaspin 2 and Vivaspin 15R
- Vivaspin 2 offers choice of membranes: PES, Hydrosart® and CTA

Vivaspin Ultrafiltration Family

Vivaspin 500



600 µl* – 5 µl*

Vivaspin 2



2 ml – 8 µl

Vivaspin 4



4 ml – 20 µl

Vivaspin 6



6 ml – 30 µl

Vivaspin 15



15 ml – 50 µl

Vivaspin 15R



15 ml – 50 µl

Vivaspin 20



20 ml – 50 µl

*Volume **Dead stop vol.

Ordering information

Vivaspin – PES Membrane

MWCO			3kDa	5kDa	10kDa	30kDa	50kDa
Product	Volume	Dead stop vol.					
Vivaspin 500	0.6 ml	5 µl	VS0191 (25)* VS0192 (100)	VS0111 (25) VS0112 (100)	VS0101 (25) VS0102 (100)	VS0121 (25) VS0122 (100)	VS0131 (25) VS0132 (100)
Vivaspin 2	2 ml	8 µl	VS0291 (25) VS0292 (100)	VS0211 (25) VS0212 (100)	VS0201 (25) VS0202 (100)	VS0221 (25) VS0222 (100)	VS0231 (25) VS0232 (100)
Vivaspin 4	4 ml	20 µl		VS0413 (25) VS0414 (100)	VS0403 (25) VS0404 (100)	VS0423 (25) VS0424 (100)	VS0433 (25) VS0434 (100)
Vivaspin 6	6 ml	20 µl	VS0691 (25) VS0692 (100)	VS0611 (25) VS0612 (100)	VS0601 (25) VS0602 (100)	VS0621 (25) VS0622 (100)	VS0631 (25) VS0632 (100)
Vivaspin 15	15 ml	50 µl		VS1511 (10) VS1512 (40)	VS1501 (10) VS1502 (40)	VS1521 (10) VS1522 (40)	VS1531 (10) VS1532 (40)
Vivaspin 20	20 ml	50 µl	VS2091 (12) VS2092 (48)	VS2011 (12) VS2012 (48)	VS2001 (12) VS2002 (48)	VS2021 (12) VS2022 (48)	VS2031 (12) VS2032 (48)

MWCO			100kDa	300kDa	1,000kDa	0.2 µm	5 of each
Product	Volume	Dead stop vol.					
Vivaspin 500	0.6 ml	5 µl	VS0141 (25) VS0142 (100)	VS0151 (25) VS0152 (100)	VS0161 (25) VS0162 (100)	VS0171 (25) VS0172 (100)	VS01S1 (25)
Vivaspin 2	2 ml	8 µl	VS0241 (25) VS0242 (100)	VS0251 (25) VS0252 (100)	VS0261 (25) VS0262 (100)	VS0271 (25) VS0272 (100)	VS02S1 (25)
Vivaspin 4	4 ml	20 µl	VS0443 (25) VS0444 (100)			VS0473 (25) VS0474 (100)	VS04S3 (25)
Vivaspin 6	6 ml	20 µl	VS0641 (25) VS0642 (100)	VS0651 (25) VS0652 (100)	VS0661 (25) VS0662 (100)	VS0671 (25) VS0672 (100)	VS06S1 (25)
Vivaspin 15	15 ml	50 µl	VS1541 (10) VS1542 (40)			VS1571 (10) VS1572 (40)	VS15S1 (10)
Vivaspin 20	20 ml	50 µl	VS2041 (12) VS2042 (48)	VS2051 (12) VS2052 (48)	VS2061 (12) VS2062 (48)	VS2071 (12) VS2072 (40)	VS20S1 (12)

Vivaspin – Hydrosart® Membrane

MWCO			2kDa	5kDa	10kDa	30kDa
Product	Volume	Dead stop vol.				
Vivaspin 2	2 ml	5 µl	VS02H91 (25)* VS02H92 (100)	VS02H11 (25) VS02H12 (100)	VS02H01 (25) VS02H02 (100)	VS02H21 (25) VS02H22 (100)
Vivaspin 15R	15 ml	30 µl	VS15RH91 (12) VS15RH92 (48)	VS15RH11 (12) VS15RH12 (48)	VS15RH01 (12) VS15RH02 (48)	VS15RH21 (12) VS15RH22 (48)

Vivaspin – CTA Membrane

MWCO			5kDa	10kDa	20kDa
Product	Volume	Dead stop vol.			
Vivaspin 2	2 ml	5 µl	VS02U1 (25) VS02U2 (100)	VS02V1 (25) VS02V2 (100)	VS02X1 (25) VS02X2 (100)

Vivaspin Additional Devices

Product Description	Pack size	Order No.
Vivaspin 20 – Diafiltration cups	12	VSA005

*(pack size in parenthesis)

Vivacell Pressure Units

Sample concentration up to 250 ml l

Vivacell 70 – Centrifugation Pressure



70 ml* – (150 μ l)**

Vivacell 100 – Centrifugation Pressure



100 ml* – (350 μ l)**

Vivacell 250 – Pressure



250 ml* – (600 μ l)**

*Volume **Dead stop vol.

Vivacell – Put your proteins under pressure! Pressure, Centrifuge, Shaking – the choice is yours

Vivascience offers the Vivacell product range of gas pressure and centrifugal concentrators for sample volumes from 20 ml to 250 ml.

The patented vertical membrane design guarantees highest performance and unmatched flexibility.

Vivacell is a unique and innovative concentrator, that utilizes pressure, centrifuge, shaking or pressure-shake to rapidly concentrate even samples with high particle loading.

Benefit from patented dead-stop technology, high process speed and recovery, direct recovery without reverse spin!

Ordering information

Vivacell – PES Membrane MWCO

			5kDa	10kDa	30kDa	50kDa
Product	Volume	Dead stop vol.				
Vivacell 70	70 ml	150 µl	VS6011 (2)*	VS6001 (2)	VS6021 (2)	VS6031 (2)
			VS6012 (10)	VS6002 (10)	VS6022 (10)	VS6032 (10)
Vivacell 100	100 ml	350 µl	VC1011 (2)	VC1001 (2)	VC1021 (2)	VC1031 (2)
			VC1012 (10)	VC1002 (10)	VC1022 (10)	VC1032 (10)
Vivacell 250	250 ml	600 µl	VC2511 (5)	VC2501 (5)	VC2511 (5)	VC2531 (5)
MWCO			100kDa	300kDa	1,000kDa	0.2 µm
Product	Volume	Dead stop vol.				
Vivacell 70	70 ml	150 µl	VS6041 (2)			VS6071 (2)
			VS6042 (10)			VS6072 (10)
Vivacell 100	100 ml	350 µl	VC1041 (2)	VC1051 (2)	VC1061 (2)	VC1071 (2)
			VC1042 (10)	VC1052 (10)	VC1062 (10)	VC1072 (10)
Vivacell 250	250 ml	600 µl	VC2541 (5)			VC2571 (5)

Vivacell additional devices

Product description	Pack size	Order no.
Vivacell 70		
Vivacell 70 centrifuge bottle	4	VCA003
Vivacell 70 bottles with caps	1	VCA004
Vivacell 70 replacement seals	1	VCA007
Vivacell 70 pressure head with bottle	1	VCA700
Vivacell 70 pressure-fuge head	2	VCA701
Vivacell 100		
Vivacell 100 concentrator cap	2	VCA013
Vivacell 100 santoprene replacement seals	10	VCA014
Vivacell 100 pressure head	1	VCA800
Vivacell 250		
Vivacell 250 complete set	1	VCA250
Vivacell 250 PES 5 EA MWCO	5	VC25S1
Vivacell 250 maintenance kit	1	VCA009
Common pressure accessories		
Air Pressure Controller (APC)	1	VCA002
Charge valve for pressure-fuge head	1	VCA005
Female coupling quick disconnect	1	VCA010
Male tube coupling	1	VCA011
4mm OD pressure tube 3m	1	VCA012
Pressure inductor pressure valve	1	VCA008
Replacement pressure head and screw closure	1	VCA015

*(pack size in parenthesis)

Vivaflow Crossflow Cassettes

Sample concentration up to 5 l

Vivaflow 50



1 l* – 10 ml**

Vivaflow 200

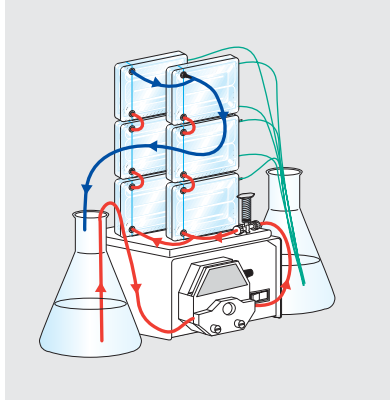


5 l – 20 ml

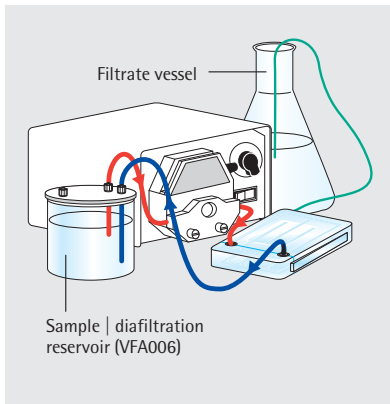
*Volume **Dead stop vol.

Vivaflow setup

Vivaflow 50 – Multiple modules



Vivaflow 50 – Single module



Applications

- Concentration of cell culture supernatants
- Concentration of viruses, bacteria, etc
- Concentration of trace metals from seawater

Ordering information

Vivaflow – PES Membrane

MWCO			5kDa	10kDa	30kDa	50kDa
Product	Volume	Min vol.				
Vivaflow 50	1 l	10 ml	VF05P1 (2)*	VF05P0 (2)	VF05P2 (2)	VF05P3 (2)
Vivaflow 200	5 l	20 ml	VF20P1 (1)	VF20P0 (1)	VF20P2 (1)	VF20P3 (1)
MWCO			100kDa	0.2 µm		
Product	Volume	Min vol.				
Vivaflow 50	1 l	10 ml	VF05P4 (2)	VF05P7 (2)		
Vivaflow 200	5 l	20 ml	VF20P4 (1)	VF20P7 (1)		

Vivaflow – RC Membrane

MWCO			10kDa	100kDa		
Product	Volume	Min vol.				
Vivaflow 50	1 l	10 ml	VF05C0 (2)*	VF05C4 (2)		
Vivaflow 200	5 l	20 ml	VF20C0 (1)	VF20C4 (1)		

Vivaflow – Hydrosart® Membrane

MWCO			5kDa	10kDa	30kDa	
Product	Volume	Min vol.				
Vivaflow 200	5 l	20 ml	VF20H1	VF20H0	VF20H2	

Vivaflow – Complete system (pump, easy load pump head & tubing)

Product Description	Order No.
Vivaflow 50	VFS504
Vivaflow 200	VFS204

*(pack size in parenthesis)

Sales and Service Contacts

For further contacts, visit www.sartorius.com

Europe

Germany

Sartorius AG
Weender Landstrasse 94-108
37075 Goettingen

Phone +49.551.308.0
Fax +49.551.308.3289

www.sartorius.com

Sartorius BBI Systems GmbH
Schwarzenberger Weg 73-79
34212 Melsungen

Phone +49.5661.71.3400
Fax +49.5661.71.3702

www.sartorius.com

Austria

Sartorius Ges.m.b.H. Wien
Franzosengraben 12
A-1030 Vienna

Phone +43.1.7965763.18
Fax +43.1.796576344

Belgium

Sartorius Technologies N.V.
Luchthavenlaan 1-3
1800 Vilvoorde

Phone +32.2.756.0670
Fax +32.2.756.0681

Denmark

Sartorius A/S
Himmelev Bygade 49
4000 Roskilde

Phone +45.70.23.4400
Fax +45.46.30.4030

France

Sartorius S.A.S.
4, rue Emile Baudot
91127 Palaiseau Cedex

Phone +33.1.6919.2100
Fax +33.1.6920.0922

Italy

Sartorius S.p.A.
Via dell'Antella, 76/A
50011 Antella-Bagno a Ripoli (FI)

Phone +39.055.63.40.41
Fax +39.055.63.40.526

Netherlands

Sartorius Filtratief B.V.
Edisonbaan 24
3439 MN Nieuwegein

Phone +31.30.6025080
Fax +31.30.6025099

Spain

Sartorius, S.A.
C/Isabel Colbrand 10 -12,
Planta 4, Oficina 121
Poligono Industrial de Fuencarral
28050 Madrid

Phone +34.91.3586102
Fax +34.91.3588804

Switzerland

Sartorius Schweiz AG
Lerzenstrasse 21
8953 Dietikon

Phone +41.1.746.50.00
Fax +41.1.746.50.50

U.K.

Sartorius Ltd.
Longmead Business Park
Blenheim Road, Epsom
Surrey KT19 9 QQ

Phone +44.1372.737100
Fax +44.1372.720799

America

USA

Sartorius North America, Inc.
131 Heartland Blvd.
Edgewood, New York 11717

Phone +1.631.254.4249
Toll-Free +1.800.3687178
Fax +1.631.254.4253

Sartorius BBI Systems, Inc.
2800 Baglyos Circle
Bethlehem, PA 18020

Phone +1.610.866.4800
Fax +1.610.866.4890

Argentina

Sartorius Argentina S.A.
Calle Avalos 4251 (B1605ECS) Munro
Buenos Aires

Phone +54.11.4721.0506
Fax +54.11.4762.2333

Brazil

Sartorius do Brasil Ltda.
Rua Santo André, 331
09020-230 Santo André
São Paulo

Phone +55.11.4438.3833
Fax +55.11.4438.2355

Mexico

Sartorius de México S.A. de C.V.
Circuito Arquitectos No. 11
Despacho 201
Ciudad Satélite
53100 Naucalpan, Estado de Mexico

Phone +52.55.62.1102
Fax +52.55.62.2942

Asia | Pacific

China

Beijing Sartorius Instrument & System
Engineering Co., Ltd.
- Beijing Rep. Office -
Dong Hu Qu, Wang Jing
Industrial Zone
Chao Yang District
100102 Beijing, P.R.C.
P.O. Box 8516

Phone +86.10.6439.2552
Fax +86.10.6439.2726

Sartorius Ltd.
Unit 1110-12, Lu Plaza,
2 Wing Yip Street
Kwun Tong, Kowloon, Hong Kong

Phone +852.2774.2678
Fax +852.2766.3526

India

Sartorius India Private Ltd.
10, 6th Main, 3rd Phase Peenya
KIADB Industrial Area
Bangalore - 560 058

Phone +91.80.2839.1963 | 0461
Fax +91.80.2839.8262

Japan

Sartorius K.K.
KY Building, 8-11
Kita Shinagawa 1-chome
Shinagawa-ku
Tokyo 140-0001

Phone +81.3.3740.5407
Fax +81.3.3740.5406

South Korea

Sartorius Korea Biotech
B-1023, Paragon
17-2, Jungja-Dong, Bundang-Gu
Sungnam, Gyunggi-Do
463-811, South Korea

Phone +82.31.782.7011
Fax +82.31.782.7666

Malaysia

Sartorius (Malaysia) Sdn. Bhd.
Lot L3-E-3B, Enterprise 4
Technology Park Malaysia
Bukit Jalil
57000 Kuala Lumpur

Phone +60.3.8996.0622
Fax +60.3.8996.0755

Singapore

Sartorius Singapore Pte. Ltd.
10, Science Park Road, The Alpha
#02-25, Singapore Science Park 2
Singapore 117684

Phone +65.6872.3966
Fax +65.6778.2494

Australia

Sartorius Australia Pty. Ltd.
Unit 17/104 Ferntree Gully Road
Waverley Business Park
East Oakleigh, Victoria 3166

Phone +61.3.9590.8800
Fax +61.3.9590.8828