

1 Spin Columns, PES **NEW**

Spin-column system consisting of 0.8 ml filter tube with PES filter and 2.0 ml receiver tube.
 - Recommended for filtering cell culture media
 - Used for the ultracleaning of solutions
 - Very low protein binding
 - High flow rates

Volume ml	MWCO kDa	PK	Cat. No.
2.0	5	200	6.283 184
2.0	10	200	6.283 185
2.0	50	200	6.283 186



Receiver tubes for Spin Columns **NEW**

Type	Volume ml	Description	PK	Cat. No.
Filter-tubes	0.8	clear, without filter, with filter ring	2000	6.283 187
Receiver-tubes	1.5	clear	1000	6.283 188
Receiver-tubes	1.5	clear, sterile	1000	6.283 189
Receiver-tubes	2.0	clear	1000	6.283 190
Receiver-tubes	2.0	clear, sterile	1000	6.283 191



4 Filter units, PES membrane

These bottle-top filter units are ideally suited for the separation or purification of samples which are contained in large volumes. The units are available with either 0.22 µm or 0.45 µm pore sizes and 3 different volumes (250, 500 and 1000 ml).

- Features:
- Bottle-top filter and reservoir bottle are included
 - Light weight and stable wall construction
 - Large knurls on the reservoir bottle cap for easy screwing
 - Wide bottle mouth for efficient pouring out
 - Volume graduation
 - Hose connector fits multiple diameters
 - Non-pyrogenic

Membrane material: Polyethersulfone (PES)

Capacity ml	Pore size µm	Neck thread mm	PK	Cat. No.
250	0.22	45	12	6.267 180
250	0.45	45	12	6.267 181
500	0.22	45	12	6.267 182
500	0.45	45	12	6.267 183
1000	0.22	45	12	6.267 184
1000	0.45	45	12	6.267 185



5 Filter units, Sartolab RF, PES membrane **NEW**

Sterile filter units with receiver for sterile filtration of aqueous solutions and media, particularly cell culture. Simple and safe to handle. The integral polyethersulfone (PES) membrane guarantees extremely good throughput times and low protein binding, making it ideal for filtering proteinaceous solutions. The receiver is supplied with a flexible vacuum tubing adapter and a lid.

Type	Capacity ml	Pore size µm	PK	Cat. No.
Sartolab RF 150	150	0.22	12	9.049 200
Sartolab RF 250	250	0.22	12	9.049 201
Sartolab RF 500	500	0.22	12	9.049 202
Sartolab RF 1000	1000	0.22	12	9.049 203



6 Bottle-top filters, Sartolab BT, PES membrane **NEW**

Sterile vacuum filters for screwing directly onto sterile bottles. Disposable units for sterile filtration of media and aqueous solutions. The special polyethersulphone (PES) membrane produces extremely good throughput times and low protein binding, making it ideal for cell culture applications. With GL45 screw connection for all standard bottles.

Caution: Only use sterile bottles authorised for use in low pressure applications.

Type	Capacity ml	Pore size µm	PK	Cat. No.
Sartolab BT 150	150	0.22	48	9.049 204
Sartolab BT 500	500	0.22	12	9.049 205
Sartolab BT 1000	1000	0.22	12	9.049 206





1 Filter units Nalgene™ Rapid-Flow™, PES Membrane, sterile

Ideal for biological and pharmaceutical sterile filtration. PES membrane features low protein binding, low level of extractables and a high flow rate. Now available in three pore sizes: The best filter units with 0.20 µm and 0.45 µm pore size and new to the protection of valuable cell cultures from mycoplasma with 0.10 µm pore size. Filter top and filtrate bottle are graduated. Blue color-coded collar with cellulosic vent plug side arm and quick-disconnect tubing adapter. Leakproof, sterile screw closure included for storage of sterile filtrate. Sterile, single packed. Certificate of Quality included in each full case. Lot number, catalogue number, membrane type, pore size and expiration date are printed on filter units, bottle tops and receivers for easy identification and lot traceability.

Thermo Scientific

Type	Volume upper/ lower part ml	Membrane diam. mm	Pore size µm	Thread GL	PK	Cat. No.
565	150/150	50	0.10	45	1	9.046 022
568	250/250	50	0.10	45	1	9.046 024
566	500/500	75	0.10	45	1	9.046 023
565	150/150	50	0.20	45	1	6.302 336
568	250/250	50	0.20	45	1	6.228 218
566	500/500	75	0.20	45	1	6.227 381
569	500/500	90	0.20	45	1	6.225 298
567	1000/1000	90	0.20	45	1	6.229 041
165	150/150	50	0.45	45	1	7.047 785
168	250/250	50	0.45	45	1	7.047 791
166	500/500	75	0.45	45	1	7.047 787
169	500/500	90	0.45	45	1	7.047 793
167	1000/1000	90	0.45	45	1	7.047 789



2 Bottle Top Filters Nalgene™ Rapid-Flow™, PES Membrane, sterile



Filters securely screw onto glass media bottles with 33 mm or 45 mm neck sizes. Allows direct filtration of liquid into sterile glass media bottles.

Thermo Scientific

Tight and secure thread connection for vacuum filtration, vacuum tubing to be connected onto tubing adapter of side-arm. Graduated. Certificate of quality included in each full case. Lot number, catalogue number, membrane type, pore size and expiration date are printed on filter units for easy identification and lot traceability.

Type	Capacity ml	Membrane diam. mm	Pore size µm	Neck thread GL	PK	Cat. No.
596	150	50	0.20	33	1	7.048 392
596	150	50	0.20	45	1	6.224 312
595	500	75	0.20	33	1	7.048 388
595	500	75	0.20	45	1	7.048 390
597	1000	90	0.20	33	1	7.048 396
597	1000	90	0.20	45	1	7.048 397
296	150	50	0.45	33	1	7.048 393
296	150	50	0.45	45	1	7.048 395
295	500	75	0.45	33	1	7.048 389
295	500	75	0.45	45	1	7.048 391



3 Filter Units Nalgene™, Low Profile, PES Membrane, sterile



Compact Nalgene™ filter units with PES membrane are ideally suited for quick filtration of samples between 50 to 100 ml.

Thermo Scientific

- Unitary construction with non-separable upper and receiver components
- Padless membrane support minimizes foaming of proteinaceous samples
- Non-pyrogenic
- Sterile

Type	Volume upper / lower part ml	Membrane diam. mm	Pore size µm	Thread GL	PK	Cat. No.
524	115/150	50	0.20	45	1	6.234 424
124	115/150	50	0.45	45	1	9.046 020

➔ Membrane pumps please see page 1032.

1 Filter Units Nalgene™ Rapid-Flow™ with 50ml centrifuge tube, PES Membrane, sterile **NEW**

Polystyrene housing, 0.2 µm PES membrane. The optimal choice for small volume tissue culture work. Offers clean, fast filtration of 20 ml to 50 ml of media or buffers. This low protein binding unit is non-cytotoxic and non-pyrogenic. Comes assembled with 50 ml conical tube and a separate closure. Includes 2 reusable stands in each case. Certified and graduated. Lot number, catalogue number, membrane type, pore size and expiration date are printed on it. *Thermo Scientific*



Type	Volume upper / lower part ml	Membrane diam. mm	Pore size µm	Thread GL	PK	Cat. No.
564	50/50	50	0.20	45*	1	9.046 021

* with adapter for 50ml tube

2 Filter Units, Cellulose Nitrate Membrane, sterile **NEW**

White, cellulose nitrate membrane. Colour code: green. Gamma-irradiated sterile. Highest throughput rate for water and aqueous solutions, low extractables content. Surfactant-free. Lot number, catalogue number, membrane type, pore size and expiration date are printed on filter units, bottle tops and receivers for easy identification and lot traceability. *Thermo Scientific*



Type	Volume upper / lower part ml	Membrane diam. mm	Pore size µm	Thread GL	Grid	PK	Cat. No.
121	115/115	50	0.45	45	black	1	7.047 590
125	150/150	50	0.20	45	without	1	9.046 109
125	150/150	50	0.45	45	black	1	9.046 110
125	150/150	50	0.80	45	without	1	9.046 111
126	250/250	50	0.20	45	without	1	9.046 121
126	250/250	50	0.45	45	black	1	9.046 122
126	250/250	50	0.80	45	without	1	9.046 123
450	500/500	75	0.20	45	without	1	9.046 131
450	500/500	75	0.45	45	black	1	9.046 132
450	500/500	75	0.80	45	without	1	9.046 133
127	500/1000	75	0.20	45	without	1	9.046 141
127	500/1000	75	0.45	45	black	1	9.046 142
127	500/1000	75	0.80	45	without	1	9.046 143

3 Filter Units Nalgene™ Rapid-Flow™, Nylon Membrane, sterile **NEW**

Single-use, disposable filter units for sterile filtration of media and other reagents, and for other highly sensitive cell culture lines. With polystyrene (PS) upper and lower chambers and nylon membrane. Colour code: red. For cell culture. Gamma-irradiated sterile. Extremely low in extractable substances, no wetting agents. Lot number, catalogue number, membrane type, pore size and expiration date are printed on filter units, bottle tops and receivers for easy identification and lot traceability. *Thermo Scientific*



Type	Volume upper / lower part ml	Membrane diam. mm	Pore size µm	Thread GL	PK	Cat. No.
150	150/150	50	0.20	45	1	9.046 055
150	150/150	50	0.45	45	1	9.046 056
153	250/250	50	0.20	45	1	9.046 061
153	250/250	50	0.45	45	1	9.046 062
151	500/500	75	0.20	45	1	9.046 064
151	500/500	75	0.45	45	1	9.046 065
163	500/500	90	0.20	45	1	9.045 978
154	500/1000	75	0.20	45	1	9.046 067
154	500/1000	75	0.45	45	1	9.046 068
164	1000/1000	90	0.20	45	1	9.045 979



1 Filter units Nalgene™ Rapid-Flow™, SFCA Membrane, sterile

NEW

Single-use, disposable filter units for sterile filtration of media and other reagents, and for other highly sensitive cell culture lines. With polystyrene (PS) upper and lower chambers and surfactant-free, cellulose acetate membranes. Colour code: yellow collar. For cell culture. Gamma-irradiated sterile. Low protein binding, with high throughput rate for proteinaceous solutions and minimal extractables content. Lot number, catalogue number, membrane type, pore size and expiration date are printed on filter units bottle tops and receivers for easy identification and lot traceability.

Thermo Scientific

Type	Volume upper/ lower part ml	Membrane diam. mm	Pore size µm	Thread GL	PK	Cat. No.
122	115/115	50	0.20	45	1	7.047 591
122	115/115	50	0.45	45	1	6.236 659
155	150/150	50	0.20	45	1	9.046 034
155	150/150	50	0.45	45	1	9.046 035
157	250/250	50	0.20	45	1	9.046 037
157	250/250	50	0.45	45	1	9.046 038
156	500/500	75	0.20	45	1	9.046 041
156	500/500	75	0.45	45	1	9.046 042
158	500/1000	75	0.20	45	1	9.046 044
158	500/1000	75	0.45	45	1	9.046 045
162	500/500	90	0.20	45	1	9.045 975
162	500/500	90	0.45	45	1	9.045 976
161	1000/1000	90	0.20	45	1	9.045 971
161	1000/1000	90	0.45	45	1	9.045 972



2 Bottle Top Filters Nalgene™ Rapid-Flow™, SFCA Membrane, sterile

NEW

Tissue culture filters for screw fitting onto bottles with 33 mm or 45 mm neck diameters. With surfactant-free, cellulose acetate membrane (SFCA) and polystyrene (PS) housing. Gamma-irradiated sterile. Pyrogen free. Non cytotoxic. Low-pressure filtration can be carried out directly into a suitable sterile bottle. Caution: Only use sterile bottles authorised for use in low pressure applications. Always wear protective equipment for low pressure procedures. The membrane is characterised by its low protein binding, good throughput rates and minimal clogging with negligible protein loss. Permanent, moulded graduations. Quick-disconnection tubing adaptor with cellulosic vent plug for tubing with an internal diameter of 6 mm to 9 mm. Lot number, catalogue number, membrane type, pore size and expiration date are printed on filter units for easy identification and lot traceability.

Thermo Scientific

Type	Capacity ml	Membrane diam. mm	Pore size µm	Neck thread GL	PK	Cat. No.
290	150	50	0.20	33	1	9.045 951
290	150	50	0.45	33	1	9.045 952
290	150	50	0.20	45	1	9.045 953
290	150	50	0.45	45	1	9.045 954
291	500	75	0.20	33	1	9.045 956
291	500	75	0.45	33	1	9.045 957
291	500	75	0.20	45	1	9.045 958
291	500	75	0.45	45	1	9.045 959
292	1000	90	0.20	33	1	9.045 961
292	1000	90	0.20	45	1	9.045 963



3 Filter Storage Bottles Nalgene™ Rapid-Flow™, PS, sterile

NEW

Easy-to-use ergonomic design. Can be used to store sterilised filtrate. Radiation-sterilised to save you time and minimize contamination. Also handy as presterilised, single-use storage containers. 1-1/2-turn threaded screw closure guarantees a leakproof seal and eliminates pH shift in receivers. Certified. Non pyrogenic, non cytotoxic. Sterile, graduated and leakproof.

Thermo Scientific

Type	Capacity ml	Thread GL	PK	Cat. No.
455	150	45	1	7.048 731
455	250	45	1	7.048 732
455	500	45	1	7.048 733
455	1000	45	1	7.048 734