

Puradisc Syringe Filters

Puradisc Syringe Filters are designed for the quick, efficient filtration of sample volumes up to 100 ml.



Puradisc FP 30 mm syringe filters

Puradisc 4

- 4 mm diameter syringe filter
- Sample volume up to 2 ml
- Low hold-up volume < 10 µl ensures maximum sample recovery
- Minimized nonspecific binding to membrane (due to small membrane size)

Puradisc 13

- 13 mm diameter syringe filter
- Sample volume up to 10 ml
- Low hold-up volume < 25 µl ensures maximum sample recovery

Puradisc 25

- 25 mm diameter syringe filter
- Sample volume up to 100 ml

Puradisc FP 30

- 30 mm diameter
- Larger filtration area (44% greater in comparison to 25 mm)
- Designed for aqueous samples

Puradisc FP 30 may be used for:

- Filtration of protein-containing solutions with minimal protein loss (CA membrane)
- Removal of cellular constituents from solution

Puradisc Aqua 30

These filters contain prewashed membrane to minimize background carbon levels in COD and DOC analysis.

Features and benefits

- Pigment-free polypropylene (or polycarbonate for Puradisc FP and Aqua 30)
- Choice of membrane or glass microfiber filter media for wide solvent compatibility
- Sterile option (blister pack) for critical applications
- Tube-tip format (optional) for accurate dispensing into a microvial
- Choice of filter sizes (4 to 30 mm)
- Standard inlet and outlet Luer connectors
- Adhesive-free seals eliminate potential sample contamination

Possible applications

- HPLC samples containing low solid content—filtration will improve column life
- CE (capillary electrophoresis) samples—filtration will eliminate spurious peaks
- Sterile filtration of low volume samples
- Biological sample preparation
- UV/Vis samples—filter directly into cuvette using tube tip
- Refractometry—filter samples to prevent damage to instrument optics and improve accuracy of results
- Buffer solutions
- Salt solutions
- Tissue culture media

Please turn to pages 15 to 17 for ordering information



Puradisc 13 mm with tube tip

Typical data

Puradisc Syringe Filters

	Puradisc 4	Puradisc 13	Puradisc 25	Puradisc FP/A
Housing	Polypropylene	Polypropylene	Polypropylene	Polycarbonate
Filtration area	0.2 cm ²	1.3 cm ²	4.2 cm ²	5.7 cm ²
Maximum pressure	75 psi (5.2 bar)	75 psi (5.2 bar)	75 psi (5.2 bar)	100 psi (6.9 bar)
Volume 'hold up' with air purge	< 10 µl	< 25 µl	< 100 µl	< 50 µl
Dimensions	10.1 × 23.5 mm 19.5 × 7.7 mm (PVDF membrane only)	16.3 × 19.8 mm	22.9 × 28.4 mm	26 × 34 mm
Weight (approx)	0.55 g	0.95 g	2.7 g	4.7 g
Volume throughput	up to 2 ml	up to 10 ml	up to 100 ml	up to 100 ml
Inlet connection	Female Luer lock	Female Luer lock	Female Luer lock	Female Luer lock
Outlet connection	Male Luer/tube tip	Male Luer/tube tip	Male Luer	Male Luer/Luer lock
Sterilization*	Autoclave at 121°C	Autoclave at 121°C	Autoclave at 121°C	Autoclaving not recommended

* Applies to nonsterile filters only. Do not autoclave sterile Puradisc filters.

Ordering information

4 mm Puradisc Syringe Filters

Membrane [†]	Nonsterile without tube tip			Nonsterile with tube tip	Sterile without tube tip		Quantity/pack
	Nylon	PVDF	PTFE	PVDF	Nylon	PVDF	
Pore size (µm)							
0.2	—	—	—	6777-0402	6786-0402	6791-0402	50
0.45	—	—	—	6777-0404	—	—	50
0.2	6789-0402	6779-0402	6784-0402	—	—	—	100
0.45	6789-0404	6779-0404	6784-0404	—	—	—	100
0.2	6790-0402	6792-0402	6783-0402	—	—	—	500
0.45	6790-0404	6792-0404	6783-0404	—	—	—	500

13 mm Puradisc Syringe Filters (nonsterile)

Membrane*	Without tube tip						With tube tip		Quantity/pack	
	Nylon	PVDF	PTFE	PES	PP	GMF	CA	PVDF		PTFE
Pore size (µm)										
0.2	—	—	—	—	—	—	—	6777-1302	6775-1302	50
0.45	—	—	—	—	—	—	—	6777-1304	6775-1304	50
0.1	6789-1301	—	6784-1301	—	—	—	—	—	—	100
0.2	6789-1302	6779-1302	6784-1302	6782-1302	6788-1302	—	—	—	—	100
0.45	6789-1304	6779-1304	6784-1304	6782-1304	6788-1304	—	6771-1304	—	—	100
1.0	—	—	6784-1310	—	—	—	—	—	—	100
5.0	—	—	6784-1350	—	—	—	—	—	—	100
GF/A 1.6 [†]	—	—	—	—	—	6820-1316	—	—	—	100
GF/B 1.0 [†]	—	—	—	—	—	6821-1310	—	—	—	100
GF/C 1.2 [†]	—	—	—	—	—	6822-1312	—	—	—	100
GF/D 2.7 [†]	—	—	—	—	—	6823-1327	—	—	—	100
GF/F 0.7 [†]	—	—	—	—	—	6825-1307	—	—	—	100
934-AH 1.5 [†]	—	—	—	—	—	6827-1315	—	—	—	100
0.2	6790-1302	6792-1302	6783-1302	—	6785-1302	—	—	—	—	500
0.45	6790-1304	6792-1304	6783-1304	6781-1304	6785-1304	6818-1304	—	—	—	500
GF/A 1.6 [†]	—	—	—	—	—	6806-1316	—	—	—	500
0.2	6768-1302	6765-1302	6766-1302	—	—	—	—	—	—	2000
0.45	6768-1304	6765-1304	6766-1304	—	—	—	6763-1304	—	—	2000

* CA = Cellulose acetate; GMF = Glass microfiber filter; PES = Polyethersulfone; PP = Polypropylene; PTFE = Polytetrafluoroethylene; PVDF = Polyvinylidene difluoride

[†] Particle Retention Rating

13 mm Puradisc Syringe Filters (sterile)

Membrane*	Without tube tip			With tube tip	Quantity/pack
	Nylon	PVDF	PES	PVDF	
Pore size (µm)					
0.1	6786-1301	—	—	—	50
0.2	6786-1302	6791-1302	6780-1302	6778-1302	50
0.45	—	6791-1304	6780-1304	—	50

* PES = Polyethersulfone; PVDF = Polyvinylidene difluoride

25 mm Puradisc Syringe Filters

Membrane*	Nonsterile					Sterile		Quantity/pack
	Nylon	PVDF	PTFE	PP	PES	GMF	PES	
Pore size (µm)								
0.1	—	—	6784-2501	—	—	—	—	50
0.2	6750-2502	6746-2502	6784-2502	6786-2502	—	—	6780-2502	50
0.45	6750-2504	6746-2504	6784-2504	6786-2504 [‡]	—	—	6780-2504	50
1.0	6750-2510	—	6784-2510	—	—	—	6780-2510	50
0.7 GF/F [†]	—	—	—	—	—	6825-2517	—	50
1.0 GD 1 [†]	—	—	—	—	—	6783-2510	—	100
2.0 GD 2 [†]	—	—	—	—	—	6783-2520	—	100
0.2	6751-2502	6747-2502	6785-2502	6788-2502	6781-2502	—	—	200
0.45	6751-2504	6747-2504	6785-2504	6788-2504 [‡]	6781-2504	—	—	200
1.0	6751-2510	—	—	—	6781-2510	—	—	200
0.7 GF/F [†]	—	—	—	—	—	6825-2527	—	200
0.2	—	—	—	—	—	—	—	300
0.45	6752-2504	—	—	—	—	—	—	500
0.1	—	—	6798-2501	—	—	—	—	1000
0.2	6753-2502	—	6798-2502	6790-2502	6794-2502	—	6794-2512	1000
0.45	6753-2504	6749-2504	6798-2504	6790-2504 [‡]	6794-2504	—	6794-2514	1000
0.7 GF/F [†]	—	—	—	—	—	6787-2520	—	1000
1.0	6753-2510	—	6798-2510	—	6794-2510	—	—	1000
1.0 GD 1 [†]	—	—	—	—	—	6792-2510	—	1000

* GD = Graded Density; PES = Polyethersulfone; PP = Polypropylene; PTFE = Polytetrafluoroethylene; PVDF = Polyvinylidene difluoride

[†] Particle Retention Rating

[‡] DpPP = Polypropylene Depth Filter



Puradisc Syringe Filters 13 and 25 mm

30 mm Puradisc FP Syringe Filters

Description	Diameter (mm)	Pore size (µm)	Membrane/housing*	Connection in/out†	Color code	Quantity/pack	Product code
Individually sterile packed							
FP 30 CA-S#†	30	0.2	CA/PC	FLL/ML	red	50	10 462 200
FP 30 CA-S#†	30	0.2	CA/PC	FLL/MLL	red	50	10 462 205
FP 30 CA-S#†	30	0.45	CA/PC	FLL/ML	white	50	10 462 100
FP 30 CA-S#	30	0.8	CA/PC	FLL/ML	green	50	10 462 240
FP 30 CA-S#	30	1.2	CA/PC	FLL/ML	orange	50	10 462 260
FP 30 CN-S	30	5.0	CN/PC	FLL/ML	black	50	10 462 000
FP 30 RC#	30	0.45	RC	FLL/ML	—	50	10 462 950
FP 30 RC#	30	0.2	RC	FLL/ML	—	50	10 462 960

Nonsterile

FP 30 CA#	30	0.2	CA/PC	FLL/ML	red	50	10 462 701
FP 30 CA#	30	0.2	CA/PC	FLL/ML	red	100	10 462 710
FP 30 CA#	30	0.2	CA/PC	FLL/ML	red	500	10 462 700
FP 30 CA#	30	0.2	CA/PC	FLL/MLL	red	500	10 462 206
FP 30 CA#	30	0.45	CA/PC	FLL/ML	white	50	10 462 601
FP 30 CA#	30	0.45	CA/PC	FLL/ML	white	100	10 462 610
FP 30 CA#	30	0.45	CA/PC	FLL/ML	white	500	10 462 600
FP 30 CA#	30	0.8	CA/PC	FLL/ML	green	50	10 462 241
FP 30 CA#	30	0.8	CA/PC	FLL/ML	green	500	10 462 243
FP 30 CA#	30	1.2	CA/PC	FLL/ML	orange	50	10 462 261
FP 30 CA#	30	1.2	CA/PC	FLL/ML	orange	500	10 462 263
FP 30 CN	30	5.0	CN/PC	FLL/ML	black	50	10 462 520
FP 30 CN	30	5.0	CN/PC	FLL/ML	black	100	10 462 510
FP 30 CN	30	5.0	CN/PC	FLL/ML	black	500	10 462 500

Aqua 30

Aqua 30 CA#	30	0.45	CA/PC	FLL/ML	white	50	10 462 656
Aqua 30 CA#	30	0.45	CA/PC	FLL/ML	white	100	10 462 655
Aqua 30 CA#	30	0.45	CA/PC	FLL/ML	white	500	10 462 650

* CA = Cellulose acetate; CN = Cellulose nitrate; PC = Polycarbonate; FLL = Female Luer lock; ML = Male Luer; MLL = Male Luer lock

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† Endotoxin-free according to LAL test (USPXVIII), sensitivity: 0.25 EU/ml



Sterile Puradisc FP 30 syringe filters