

Filtration Selection Guide

Syringe Filter Specifications

Filter Diameter	Typical Sample Volume	Hold-Up Volume	Max Temp.
4mm Syringe Filter	≤ 1mL	≤ 15 µL	100°C
13mm Syringe Filter	≤ 5mL	≤ 10 µL	60°C
17mm Syringe Filter	≤ 50mL	≤ 25 µL	100°C
25mm Syringe Filter	≤ 50mL	≤ 50 µL	60°C
30mm Syringe Filter	≤ 100mL	≤ 115 µL	100°C



Membrane Type Selection

Membrane type*	Features	Common Uses	Hydrophilic	Solvent Resistance	Protein Binding
Nylon	Good chemical compatibility and very low extractables	General filtration, sterilisation, HPLC sample preparation	Yes	Medium	Medium
Polytetrafluoro-ethylene (PTFE)	Compatible with strong acids and aggressive solvents	Gas, air and solvent filtration	No	High	High

*Cellulose Nitrate, Cellulose Acetate, PVDF, PES and PP available on request

Mobile Phase Filtration Membranes

Membrane Type	Diameter	Pore size	Solvent type
Nylon	47mm	0.22 µm	Aqueous or organic
Nylon	47mm	0.45 µm	Aqueous or organic
Polytetrafluoro-ethylene (PTFE)	47mm	0.22 µm	Non-aqueous
Polytetrafluoro-ethylene (PTFE)	47mm	0.45 µm	Non-aqueous

Vacuum Filter Funnels

Volume	Includes
1L	Base, Adaptor Kit, Mesh Filter Support, Funnel
2L	Base, Adaptor Kit, Mesh Filter Support, Funnel



2mL Centrifuge Tubes

Max G-Force: 10,000xG

Membrane Type*	Pore Size	Max. Sample Volume	Hold up volume
Cellulose Acetate	0.2 µm	850 µL	≤5 µL
Cellulose Acetate	0.45 µm	850 µL	≤5 µL
Nylon	0.2 µm	850 µL	≤5 µL
Nylon	0.45 µm	850 µL	≤5 µL
Regenerated Cellulose	0.2 µm	850 µL	≤5 µL
Regenerated Cellulose	0.45 µm	850 µL	≤5 µL

*PTFE, PVDF and PES on request



PhaseSep Filtration Product List		
Syringe Filters	Part Number	Price AUD\$
25mm Nylon Syringe Filters, 0.22 µm, pk 100	2045	
25mm Nylon Syringe Filters, 0.45 µm, pk 100	2047	
25mm PTFE Syringe Filters, 0.22 µm, pk 100	2089	
25mm PTFE Syringe Filters, 0.45 µm, pk 100	2090	
25mm PVDF Syringe Filters, 0.22 µm, pk 100	2223	
25mm PVDF Syringe Filters, 0.45 µm, pk 100	2224	
5% discount for 5 packs. 10% discount for 10 packs. 15% discount for >15 packs.		
13mm Nylon Syringe Filters, 0.22 µm, pk 100	2166	
13mm Nylon Syringe Filters, 0.45 µm, pk 100	2167	
13mm PTFE Syringe Filters, 0.22 µm, pk 100	2164	
13mm PTFE Syringe Filters, 0.45 µm, pk 100	2165	
13mm PVDF Syringe Filters, 0.22 µm, pk 100	2647	
13mm PVDF Syringe Filters, 0.45 µm, pk 100	2648	
5% discount for 5 packs. 10% discount for 10 packs. 15% discount for >15 packs.		
4mm Nylon Syringe Filters, 0.22 µm, pk 100	2091	
4mm Nylon Syringe Filters, 0.45 µm, pk 100	2092	
4mm PTFE Syringe Filters, 0.22 µm, pk 100	2394	
4mm PTFE Syringe Filters, 0.45 µm, pk 100	2395	
5% discount for 5 packs. 10% discount for 10 packs. 15% discount for >15 packs.		
<i>Also available in Cellulose Nitrate, Cellulose Acetate, PVDF, PES and PP</i>		
Mobile Phase Filtration Membranes	Part Number	Price AUD\$
47mm Nylon 0.22µm Membrane, pk 100	2034	
47mm Nylon 0.45µm Membrane, pk 100	2024	
47mm PTFE 0.22µm Membrane, pk 100	2057	
47mm PTFE 0.45µm Membrane, pk 100	2058	
2mL Centrifuge Tubes	Part Number	Price AUD\$
2ml Filter Tube, Cellulose Acetate, 0.2 µm, pk 100	24126	
2ml Filter Tube, Cellulose Acetate, 0.45 µm, pk 100	24133	
2ml Filter Tube, Nylon, 0.2 µm, pk 100	24137	
2ml Filter Tube, Nylon, 0.45 µm, pk 100	24139	
2ml Filter Tube, Regenerated Cellulose, 0.2 µm, pk 100	24148	
2ml Filter Tube, Regenerated Cellulose, 0.45 µm, pk 100	24150	
5% discount for 5 packs. 10% discount for 10 packs. 15% discount for >15 packs.		
Vacuum Filter Funnels	Part Number	Price AUD\$
Vacuum Filter Funnel System, 1L	6409	
Vacuum Filter Funnel System, 2L	6429	

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