

SELECTION GUIDE MICROFILTRATION

Interest: Retained Particles

Analysis purpose	Sample	Membrane type	+ Support type	Volume	Ø (mm)	Application → Pore		
Analysis of retained particles on the filter: Microbiological A. Gravimetric A.	Aqueous	Cellulose Acetate (AC) Cellulose Nitrate (NC) Polyethersulfone (PES) Polycarbonate (PC)	Polycarbonate Holder (PF13P...)	<5 ml	13	Sterilization: 0,20 µm Purification: 0,45 µm Pore is defined by other methods or analytical purpose depending on the particles to be separated		
			Polycarbonate Holder (PF25P...)	<100 ml	25			
			Polycarbonate Holder (PF47P...)	<1000 ml	47		Glass filtration unit (EFV047300)	
			Manifold (RF3100/500, RF6100/500)					
			Multi branch (RF1/3/6) + Stainless steel funnel					
			Multi branch (RF1/3/6) + Glass funnel (EFV030/250)					
			Multi branch (RF1/3/6) + Polycarbonate funnel (EPC250)					
			Multi branch (RF1/3/6) + Monitor ready to use (ENCS...)					
			Multi branch (RF1/3/6) + Polypropylene funnel (EPP250)					
			Stainless steel filter holder (PF142A...)	< 50 l	142			
			Stainless steel filter holder (PF293A...)	<100 l	293			
			Biological	Regenerated Cellulose (CR) Polyethersulfone (PES)	Polycarbonate Holder (PF13P...)		<5 ml	13
	Polycarbonate Holder (PF25P...)	<100 ml			25			
	Polycarbonate Holder (PF47P...)	<1000 ml			47		Glass filtration unit (EFV047300)	
	Manifold (RF3100/500, RF6100/500)							
	Multi branch (RF1/3/6) + Stainless steel funnel							
	Multi branch (RF1/3/6) + Glass funnel (EFV030/250)							
	Multi branch (RF1/3/6) + Polycarbonate funnel (EPC250)							
	Multi branch (RF1/3/6) + Monitor ready to use (ENCS...)							
	Multi branch (RF1/3/6) + Polypropylene funnel (EPP250)							
	Mixture Aqueous - Organic	Nylon Membrane (NY) Regenerated Cellulose (CR)			PTFE holder (PF13T...)		<5 ml	13
					Stainless steel holder (PF25A...)		<100 ml	25
					Stainless steel holder (PF47A...)		<1000 ml	47
			Stainless steel filtration unit (EFA040/100/500)					
			Manifold (RF3100/500, RF6100/500)					
			Multi branch (RF1/3/6) + Stainless steel funnel					
	Organic Solvent	Teflon (PT) Regenerated Cellulose (CR)	PTFE holder (PF13T...)	<5 ml	13			
			Stainless steel holder (PF25A...)	<100 ml	25			
Stainless steel holder (PF47A...)			<1000 ml	47	Stainless steel filtration unit (EFA040/100/500)			
Manifold (RF3100/500, RF6100/500)								
Stainless steel filter holder (PF142A...)					< 50 l	142		
Stainless steel filter holder (PF293A...)					<100 l	293		

Interest: Filtrate

Analysis purpose	Sample	Membrane type	+ Support type	Volume	Ø (mm)	Application → Pore					
Analysis of filtrate which passes through the membrane	Aqueous	Cellulose Acetate (AC) Cellulose Nitrate (NC) Polyethersulfone (PES) Polycarbonate (PC)	Polycarbonate Holder (PF13P...)	<5 ml	13	Sterilization: 0,20 µm Purification: 0,45 µm Pore is defined by other methods or analytical purpose depending on the particles to be separated					
			Polycarbonate Holder (PF25P...)	<100 ml	25						
			Polycarbonate Holder (PF47P...)	<1000 ml	47		Glass filtration unit (EFV047300)				
			Stainless steel filtration unit (EFA040/100/500)								
			Stainless steel filter holder (PF142A...)				< 50 l	142			
			Stainless steel filter holder (PF293A...)				<100 l	293			
			Cellulose Aetate (JAC/JACS) Cellulose Acetate + FV (JACFV) Prefilter FV (JFV...)				-----	<100 ml	25		
			Polyethersulfone (JPES/JPESS)				-----	-----	-----		
			Biological	Regenerated Cellulose (CR) Polyethersulfone (PES)	Polycarbonate Holder (PF13P...)		<5 ml	13			
					Polycarbonate Holder (PF25P...)		<100 ml	25			
					Polycarbonate Holder (PF47P...)		<1000 ml	47	Glass filtration unit (EFV047300)		
					Stainless steel filtration unit (EFA040/100/500)						
	Cellulose Aetate (JAC/JACS) Cellulose Acetate + FV (JACFV) Prefilter FV (JFV...)	-----			-----						
	Polyethersulfone (JPES/JPESS)	-----			-----						
	Mixture Aqueous - Organic	Nylon (NY) Regenerated Cellulose (CR)			PTFE holder (PF13T...)				<5 ml	13	
					Stainless steel holder (PF25A...)				<100 ml	25	
					Polycarbonate Holder (PF47P...)		<1000 ml	47	Glass filtration unit (EFV047300)		
					Stainless steel filtration unit (EFA040/100/500)						
					Nylon (JNY) PVDF (JPV)				-----	<100 l	25
					Regenerated Cellulose (CR)				-----	<1 ml	4
	Organic Solvent	Teflon (PT) Regenerated Cellulose (CR)	PTFE holder (PF13T...)	<5 ml	13						
			Stainless steel holder (PF25A...)	<100 ml	25						
			Stainless steel holder (PF47A...)	<1000 ml	47		Stainless steel filtration unit (EFA040/100/500)				
			Stainless steel filter holder (PF142A...)				<50 ml	142			
			Stainless steel filter holder (PF293A...)				<100 ml	293			
			Teflon (JPT) Regenerated cellulose (JCR)				-----	<5 ml	15		
			-----	-----	<100 ml		25				