### Microlab Scientific Co., Ltd



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## BioFil™ Syringe Filter

# nicrolabscic C Why To use a syringe filter?

Where would you rather trap the particles in your buffer? Ciontiric

## crolabscien. Why choose Biofil<sup>™</sup> Syringe Filter



On a \$400

**UHPLC Column?** 

Futures

HPLC certification which guarantees the filters will not 1. produce extraneous peaks in the UV range.

Or a \$0.50

syringe filter?

- 2. 100% integrity tested with higher burst strength ratings assuring they will perform consistently.
- 3. Suitable for solutions with a high load of particulate matter.
- 4. Larger handling capacity.
- 5. Long Life Time.



#### Step 1: Choose the suitable membrane filtration medium Characteristics of

	5. Jul	lable for solutions with a	ingli load of particulate matter			
~	4. Lar	ger handling capacity.				
96	5. Lor	ng Life Time.	Contraction (Republic Contraction Contract			
SCient,	How to select your sample preparation device? Step 1: Choose the suitable membrane filtration medium Characteristics of samples					
	Solutions		Recommended			
	Solvent Mixtures		Nylon, Hydrophilic PTFE,			
	Tissue culture Media, Buffers, Proteir Samples	n Analysis/ Biological	CA, PES, MCE, Hydrophilic PVDF			
	High Particulate Loads		PP,GF, Filter with pre-filter			
91	Aggressive or Pure Organic Solvents		Hydrophobic PTFE, PVDF			

#### Step2: choose the suitable diameter

	High Particulate Loads	PP,GF, Filter with pre-filter
94	Aggressive or Pure Organic Solvents	Hydrophobic PTFE, PVDF
.0.		The.
$\sim C_{i}$	Step2: choose the suitable diameter	10
00	Volume of samples	Recommend
Ci,	<10ml	13mm
	<100ml	25mm
	· C (C	



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### Step 3: Choose the suitable pore size based on the nature of your sample

Removal of high particulate matter with a pre filter is critical before any drug, toxic, or dirty environmental sample is filtered to ensure the highest syringe filter membrane performance.

Generally, 0.45 µm porosity filters are used to remove particulates from samples and mobile phase solutions. For Sterile-filtration, a 0.20 µm porosity filter can be used.



HPLC Extractables Test

Bioyfil<sup>™</sup> syringe filters design with a layer of prefilter. Ideal for filtering the solutions with a high load of particulate matter. All the Syringe filters are well packed, with competitive price filters. The membranes range from Nylon, CA, MCE, PES, PTFE, PVDF to PP, which are supplied in 13mm and 25mm no virgin medical PP housings.

#### Test Method:

Agilent Technologies 1200, Column: C18 UV = 254 nm Mob.phase:MeOH/H2O:20:80, Temperature: 25 °C, Flow rate:0.8ml/min, sample:2mg/ml Bergenin(in Methanol)

	Specification					
	Parameters	13mm		25mm		
fen.	Filtration area (cm2)	0.92		3.9		
Olabscient	Normal Pore Size(µm)	0.22	0.45	0.22	0.45	
	Holdup volume (µl)	<10		<100		
	Sample volume (ml)	<10		<120		
	Inlet/Outlet	Female luer lock/Male luer slip				
	Maximum Operating Temperature	50°C		50°C		
	Maximum Operating Pressure (psi)	>8	37	>8	37	





### competitor A Microlab competitor B



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þ.	Order Information 13mm syringe filters		nicrola		
Croj	Part No.	Membrane	Pore Size(µm)	Diameter (mm)	Packing (pcs/pk)
26	S13NY022B	N 1	0.22	13	100
S	S13NY045B	Nyion	0.45	13	100
C/	S13PTB022B	Hydrophobic PTFE	0.22	13	100
	S13PTB045B		0.45	13	100
	S13PTL022B	Hydrophilic PTFE	0.22	13	100
	S13PTL045B		0.45	13	100
	S13PES022B	PES	0.22	13	100
	S13PES045B		0.45	13	100
	S13PVB022B	PVDF	0.22	13	100
-ro,	S13PVB045B		0.45	13	100
abscie,	S13CA022B	CA	0.22	13	100
	S13CA045B		0.45	13	100
	SI3MCE022B	MCE	0.22	13	100
	SI3MCE045B		0.45	13	100
	S13PP022B	nn	0.22	13	100
	S13PP045B	rr	0.45	13	100

25mm Syringe Filters

	Part No.	Membrane	Pore Size(µm)	Diameter (mm)	Packing (pcs/pk)
0136	S25NY022B	Nylon	0.22	25	100
	S25NY045B		0.45	25	100
	S25PTB022B	Hydrophobic PTFE	0.22	25	100
C/	S25PTB045B		0.45	25	100
6	S25PTL022B	Hydrophilic PTFE	0.22	25	100
1	S25PTL045B		0.45	25	100
	S25PES022B	PES	0.22	25	100
2	S25PES045B		0.45	25	100
	S25PVB022B	PVDF	0.22	25	100
	S25PVB045B		0.45	25	100
	S25CA022B	CA	0.22	25	100
	S25CA045B		0.45	25	100
96	S25MCE022B	МСЕ	0.22	25	100
SCIONE:	S25MCE045B		0.45	25	100
	S25PP022B	рр	0.22	25	100
	S25PP045B		0.45	25	100
	с. С.	• /	nicr		1
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