



**COSMOSIL**

Prefiltration Tool for Liquid Chromatography

# Cosmonice Filter Cosmospin Filter

## Cosmonice Filter Series

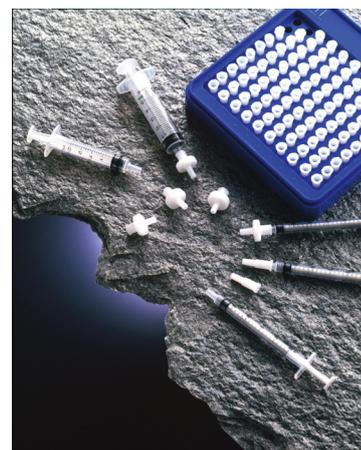
Cosmonice Filter is able to remove the dust (microparticles, precipitates, colloid substances, and so on) from sample, to minimize adverse effects for the injection sample, to extend the life of column, and to keep the stable data. There are two types of Cosmonice Filter as stated below.

### W Series (Aqueous Solution)

W series are installed new material of low-adsorptive and low-extractive durapore-filter (poly vinylidenedifluoride, PVDF) which can be used for the various solvents. So they are able to minimize the loss of the proteins in the small amount of sample, and to prevent from secondary contamination at the prefiltration.

### S Series (Organic Solvents)

S series are installed teflon-filter (poly tetrafluoroethylene, PTFE) shows strong resistance for solvents, acids, and alkalis. It is the best for the prefiltration of the sample extracted with solvents such as chloroform, tetrahydrofuran, and so on.



Product Image

## Ordering Information

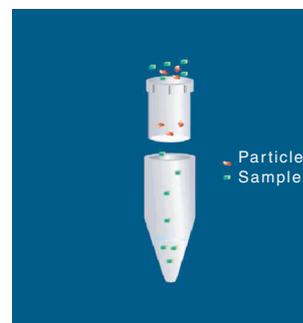
Product Name	Pore Size	Process Volume	Hold-up Volume	Connection	Product No.	PKG Size
Cosmonice Filter W (Aqueous) 4mm	0.45 µm	less than 1 ml	< 10 µl	Inlet: Luer-Lock Outlet: Luer-Slip Connectable Needles	06543-04	100 PKG
Cosmonice Filter W (Aqueous) 13mm	0.45 µm	0.5 - 10 ml	< 30 µl		06544-94	100 PKG
Cosmonice Filter S (Solvents) 4mm	0.45 µm	less than 1 ml	< 10 µl		06541-24	100 PKG
Cosmonice Filter S (Solvents) 13mm	0.45 µm	0.5 - 10 ml	< 30 µl		06542-14	100 PKG

\*HOUSINGS: Poly Ethylene

## Cosmospin Filter

Cosmospin Filter can easily remove the particles and precipitations from the sample only by using a centrifugal machine. Moreover, it is adopted omunipore hydrophilic PTFE membrane filter with wide-ranging chemical resistance. So it is the best for prefiltration of HPLC. According to the pore size, G(0.2 µm) and H(0.45 µm) are available.

Dimensions: Diameter 10.6 mm x Length 45 mm  
Membrane: Omunipore Hydrophilic PTFE  
Sample Reservoir and Sample Vial: Polypropylene



### Protocol

- Add the sample into sample reservoir
- Centrifuge after capping
- Recover the filtrate from sample vial

## Ordering Information

Product Name	Pore Size	Maximum Initial Sample Volume	Hold-up Volume	Maximum Centrifugal Force	Rotor Size (Fixed-angle)	Filtration Area	Color	Product No.	PKG Size
Cosmospin Filter G	0.2 µm	0.4 ml	5 µl	5,000 x g	1.5 ml	0.2 cm <sup>2</sup>	Brown	06549-44	100 PKG
Cosmospin Filter H	0.45 µm	0.4 ml	5 µl	5,000 x g	1.5 ml	0.2 cm <sup>2</sup>	White	06540-34	100 PKG

## Chemical Compatibility

Solvent	Cosmonice W Series	Cosmonice S Series	Cosmospin	Solvent	Cosmonice W Series	Cosmonice S Series	Cosmospin
Acetic Acid, 98%	+	+	+	Hydrogen Gas	+	+	+
Acetone	-	+	+	Hydrogen Peroxide (3%)	+	+	+
Acetonitrile	+	+	+	Isopropyl Acetate	+	+	+
Ammonia Solution (6N)	+	+	+	Isopropyl Alcohol	+	+	+
Ammonium Hydroxide (Conc.)	+	+	-	Kerosene	+	+	+
Amyl Alcohol	+	+	+	Methanol	+	+	+
Benzene	+	+	+	Methyl Ethyl Ketone	+	+	+
Benzyl Alcohol	+	+	+(1%)	Methyl Isobutyl Ketone	+	+	+
Boric Acid	+	+	+	2-Methyl-1-Propanol	+	+	+
Butyl Acetate		+		Nitric Acid (6N)	-		
Carbon Tetrachloride	+	+	+	Nitrobenzene	+	+	+
Chloroform	+	+	+	Ozone Gas	-	+	-
Cyclohexanone	-	+	+	Paraldehyde	+	+	+
Dichloromethane				Pentane	+	+	+
Diethylacetamide	-	+	+	Petroleum Ether	+	+	
Dimethyl sulfoxide (DMSO)	-	+	+	Phenol (Water Saturated)	+	+	+
Dimethylformamide	-	+	+	Phosphate Buffer Solution			
Dioxane	+	+	+	2-Propanol	+	+	+
Ethers	+	+	+	Pyridine	-	+	+
2-Ethoxyethanol	+	+		Seawater	+	+	+
Ethyl Acetate	+	+	+	Silicone Oils	+	+	+
Ethyl Alcohol	+	+	+	Sodium Hydroxide (Conc.)	-	-	-
Ethylene Glycol	+	+	+	Sodium Thiosulfate (Photo Fixing Solution)			+
Formamide				Sulfuric Acid (6N)	+	+	+
Freon, TF or PCA Solvent	+	+	+	Tetrahydrofuran (THF)	+	+	
Gasoline	+	+	+	Toluene	+	+	+
Glycerine (Glycerol)	+	+	+	Trichloroacetic Acid	+	+	
Helium Gas	+	+		Trichloroethane	+	+	+
Hexane	+	+	+	Trichloroethylene	+	+	+
Hydraulic Oil (5606)				Trifluoroacetic acid (TFA)	+	+	
Hydrochloric Acid (6N)	+	+	+	Xylene	+	+	+
Hydrofluoric Acid	+	+	-				

+ : Recommended, - : Not Recommended, (Blank) : Not Data Available

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