



2012



产 品 手 册

C A T A L O G

中文/English

天津市富集科技有限公司
TIANJIN FUJI SCIENCE & TECHNOLOGY CO., LTD.



天津市富集科技有限公司是专业的一次性针式过滤器、SPE固相萃取小柱的制造商。旗下品牌“希波氏(Xiboshi)”系列产品有着严格的质量控制与高标准的生产环境，已通过ISO9001:2008认证。

“希波氏(Xiboshi)”一次性针式过滤器采用超声波焊接自动化生产,10万级净化车间,HPLC、IC及完整性检测支持，保障了产品品质的稳定可靠。

SPE固相萃取小柱，以自主研发的筛板、色谱填料及自动装填技术，使产品回收率高和重现性稳定，在高压液相色谱、离子色谱检测的样品前处理环节有着高品质的表现。

公司将以更好、更优的服务，秉承以质量求生存、以诚信求发展为宗旨，与新老客商携手并进，共创辉煌。

Tianjin Fuji Science and Technology Co., Ltd. is the professional manufacturer of syringe filter and SPE solid extraction column. Its series of products of "Xiboshi" brand have strict quality control and high standard production environment and pass ISO9001:2008 authentication.

"Xiboshi" syringe filter adopts the technology of ultrasonic welding automation production. With the support of 100,000 level purification workshop, HPLC, IC and integrity detection, the stable and reliable quality of product is guaranteed.

As SPE solid phase extraction column with independent researched sieve plate, chromatography packing and self-loading technology, it makes the products rate of recovery be high and repeatability be stable, especially for the pretreatment procedure of high pressure liquid chromatography and ion chromatography detected samples.

Taking "survive on quality and make development by honesty" as purpose, the company will hand in hand advance by better service with new and old customers to create a brilliant future.

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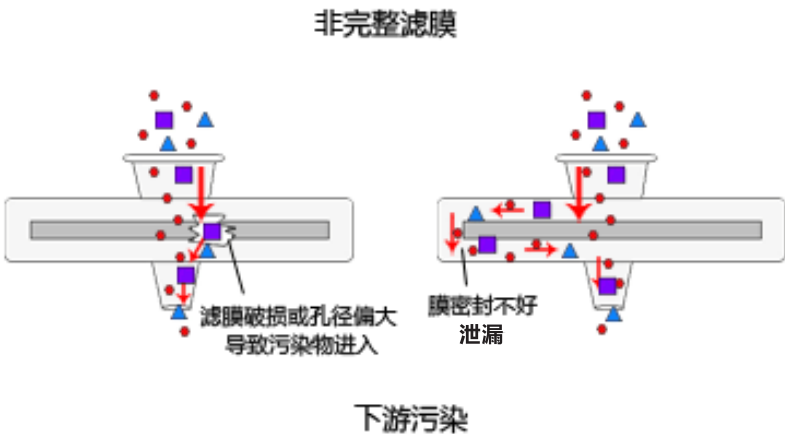
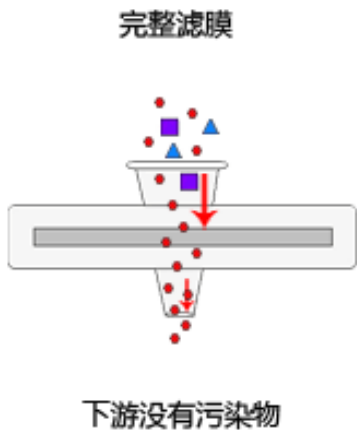
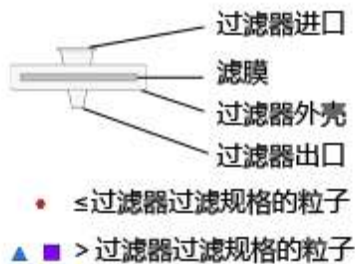
一次性针式过滤器 Syringe Filter

SPE固相萃取小柱 SPE (Solid Phase Extraction Column)

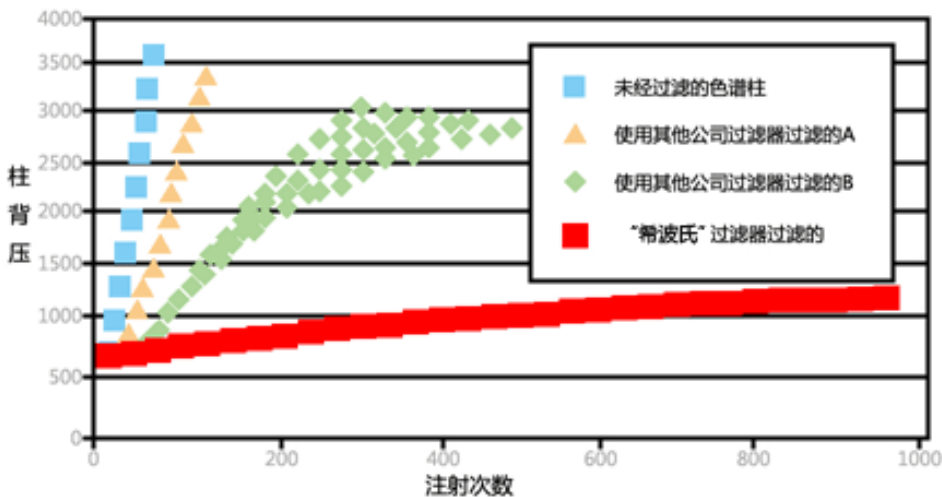
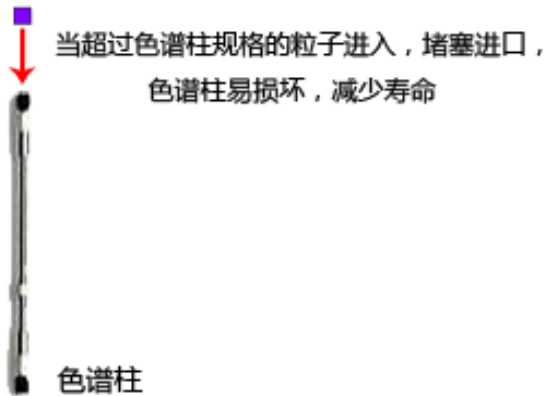
完整性测试的重要性

样品过滤通常是仪器分析的关键步骤，所以滤器完整性对于仪器寿命是非常重要的。完整性测试是我公司对于每一支过滤器生产过程中的标准操作规程。它的意义在于：

1. 确认膜的实际过滤孔径
2. 检测过滤器是否封装完好
3. 检测滤膜是否破损
4. 确认正确安装
5. 确认过滤器达到预期标准性能



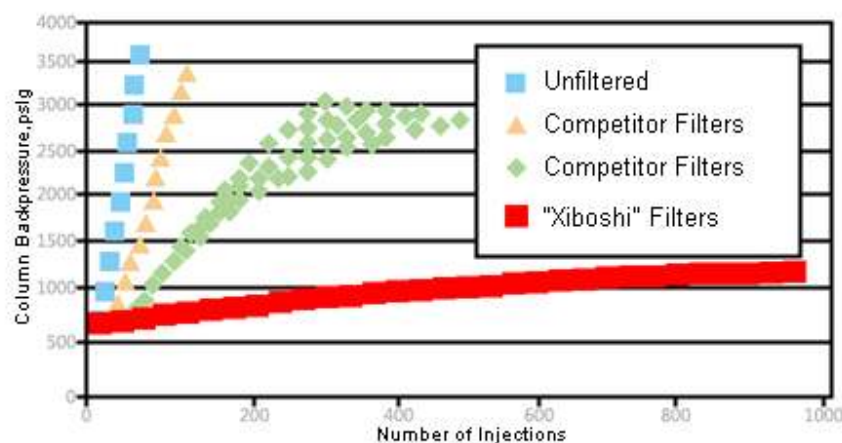
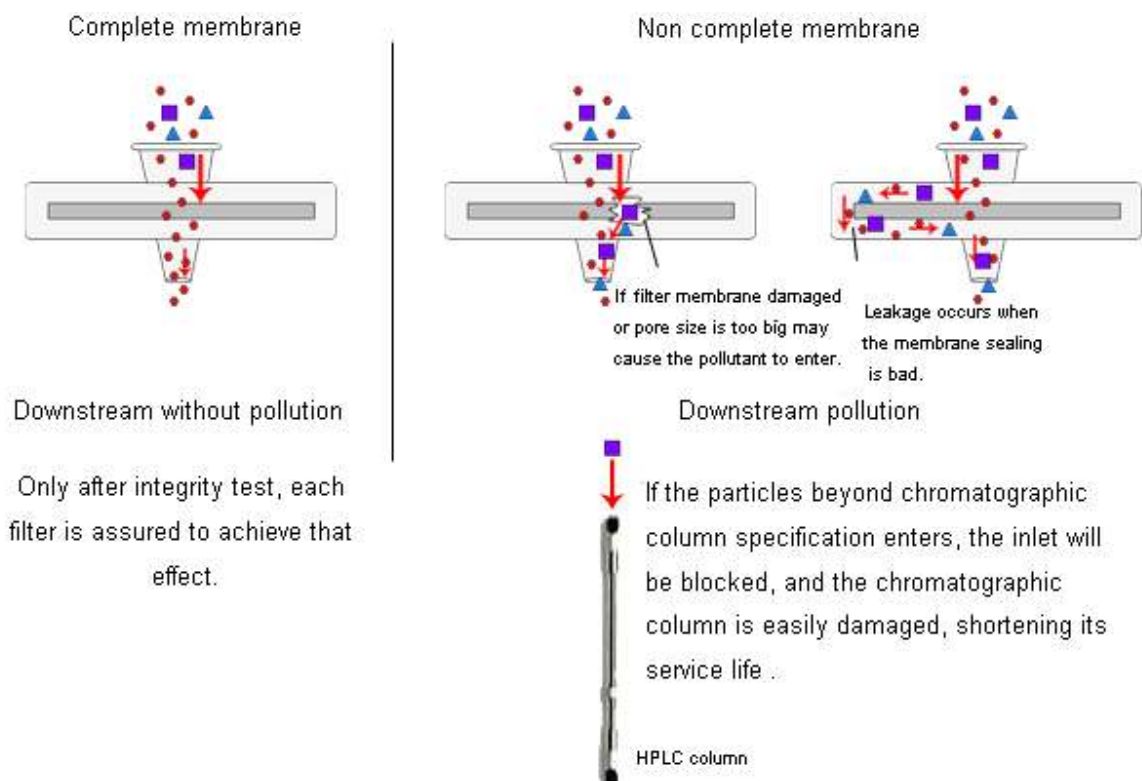
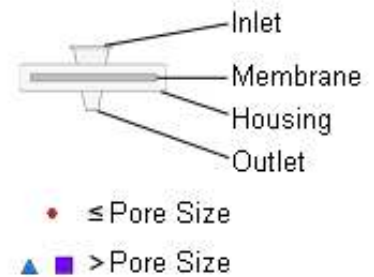
只有经过完整性测试后才能保证
每支过滤器都达到这种效果



Importance of integrity test

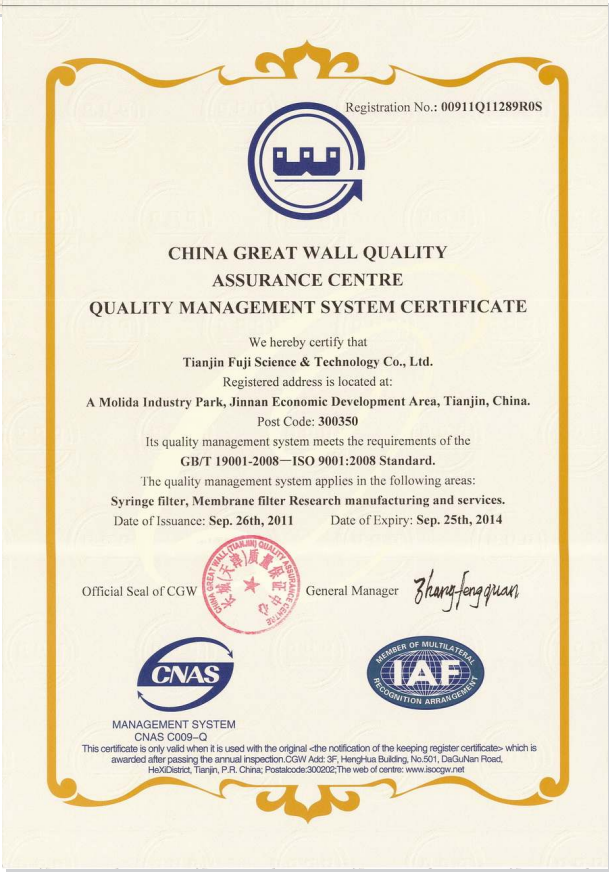
Usually, sample filtration is the key step for instrumental analysis, so the filter integrity is very important for the service life of instrument. The integrity test is the standard operating procedure of each filter in production process of our company. Its significances is as follows:

- 1.To determine the actual filter pore size of membrane.
- 2.To test the filter whether perfectly be packaged.
- 3.To test the membrane whether be damaged.
- 4.To confirm whether be properly installed.
- 5.To confirm the filter whether up to the expected standard.





证书
 Certificate



化学品名		聚四氟乙烯	聚丙烯	聚醚砜	尼龙	混合纤维素	聚偏氟乙烯
CHEMICAL		PTFE	PP	PES	NYLON	MCE	PVDF
苯甲醇 100%	Benzyl alcohol 100%	R	R	R	R	NR	R
丁醇	Butanol	R	R	R	R	R	R
乙醇	Ethanol	R	R	R	R	GR	R
甲醇	Methanol	R	R	R	LR	NR	R
乙醚	Ethy ether	R	LR	R	R	--	--
四氢呋喃	Tetrahyarofuran	LR	R	NR	R	NR	NR
苯	Benzene	LR	NR	LR	LR	GR	R
甲苯	Tiluene	LR	NR	LR	NR	GR	R
二甲苯	Xylene	LR	NR	LR	LR	GR	R
甘油	Glycerol	R	R	R	R	R	R
丙二醇	Propylene Glycol	--	R	NR	R	--	--
四氯化碳	Carbon Teteachloride	LR	LR	LR	LR	R	R
二氯甲烷	Methylene Chloride	LR	LR	NR	LR	NR	NR
三氯乙烯	Trichloro Ethylene	NR	LR	LR	LR	NR	R
冰醋酸	Acetic acid glacial	R	R	R	NR	NR	R
盐酸 6N	Hydrochloric acid 6N	R	R	--	NR	NR	TST
硝酸 6N	Nitric acid 6N	R	R	--	NR	NR	R
硫酸(浓)	Sulfuric acid (conc)	R	R	NR	NR	--	--
氢氧化钾 3N	Potassium hydroxide 3N	R	R	R	R	NR	R
氢氧化钠 3N	Sodium hydroxide 3N	R	R	R	R	NR	R
氢氧化钠 6N	Sodium hydroxide 6N	R	R	R	R	--	--
润滑油	Lubricating oil	R	R	NR	R	R	--
花生油	Peanut oil	R	R	--	R	R	--
芝麻油	Sesame oil	R	R	NR	R	R	--
丙酮	Acetone	R	R	NR	R	NR	NR
环己酮	Cyclo hexanone	R	R	NR	--	NR	NR
二甲基甲酰胺	Dimethyl From amide	R	R	NR	R	NR	NR
甲醛 4%	Formal dehyde 4%	R	R	R	R	--	--
汽油	Gasoloine	LR	LR	R	LR	R	R
苯酚	Phenol liquified	R	R	NR	R	R	R
吡啶	Pyridend	R	LR	NR	LR	NR	NR
水	Water	R	R	R	R	--	--
乙腈	Acctonitrile	R	LR	R	LR	NR	NR
异丙醇	Isopropanol	R	R	R	R	NR	R

注：R=推荐；LR=有限推荐；NR=不推荐；GR=一般推荐；TST=推荐用户预先测试；--：未测试

Note：R=Recommended; LR=Limited Recommendation; NR=Not Recommended; GR=Generally Recommended; TST =Testing Recommended; --: Not tested

* 本表是依据化学公开出版物的兼容性表编辑所得，仅供分析者参考，不代表本公司最终数据。

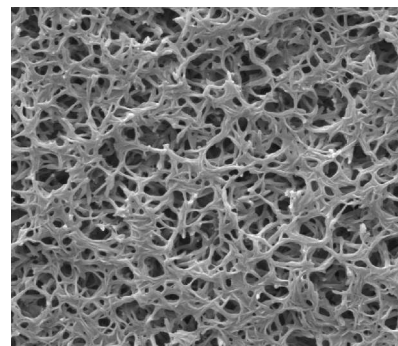
* This table is made according to the compatibility table of chemistry publications. It is for reference only and not represents the final data of our company.

尼龙滤膜 Nylon membrane filter

尼龙滤膜具有机械强度高，化学性能稳定，能耐受大多数有机溶剂和多数水溶液过滤等特点。较常应用于普通 HPLC 有机溶剂流动相过滤。

Nylon membrane filter has the characteristics of high mechanical strength, stable chemical properties, able to bear most organic solvent and aqueous solution filtering, etc. It is mostly be used for normal HPLC organic solvent mobile phase filtering.

材质 Material	尼龙 Nylon (NYL)
孔径 Pore size	0.1um 0.2um 0.45um 0.8um
尺寸 Size	47mm 50mm
厚度 Thicknesss	80um
使用温度 Operating temperature	最高75℃ Max75℃
灭菌方式 Sterilization methods	环氧乙烷灭菌，热压灭菌 (121℃, 1bar), γ 射线灭菌 Ethylene oxide sterilized, Autoclave sterilization (121℃, 1bar)、γ ray sterilization



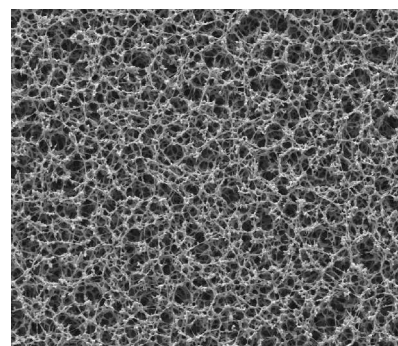
货号	孔径	直径	包装规格
Cat. NO.	Pore size	Diameter	Qty/pkg
MNL4710	0.10um	47mm	100
MNL4720	0.20um	47mm	100
MNL4745	0.45um	47mm	100
MNL4780	0.80um	47mm	100
MNL5010	0.10um	50mm	100
MNL5020	0.20um	50mm	100
MNL5045	0.45um	50mm	100
MNL5080	0.80um	50mm	100

混合纤维素滤膜 MCE membrane filter

混合纤维素滤膜具有机械强度高，化学性能稳定，能耐受部分有机溶剂和多数水溶液过滤等特点。较常应用于普通水溶液过滤。

MCE membrane filter has the characteristics of high mechanical strength, stable chemical properties, able to bear some organic solvent and most aqueous solution filtering, etc. It is often used for normal aqueous solution filtering.

材质 Material	醋酸纤维素和硝酸纤维素 Cellulose Acetate and Cellulose Nitric acid
孔径 Pore size	0.1um 0.2um 0.45um 0.8um
尺寸 Size	47mm 50mm
厚度 Thicknesss	60um
使用温度 Operating temperature	最高60℃ Max60℃
灭菌方式 Sterilization methods	环氧乙烷灭菌，热压灭菌 (121℃, 1bar), γ 射线灭菌 Ethylene oxide sterilized, Autoclave sterilization (121℃, 1bar)、γ ray sterilization



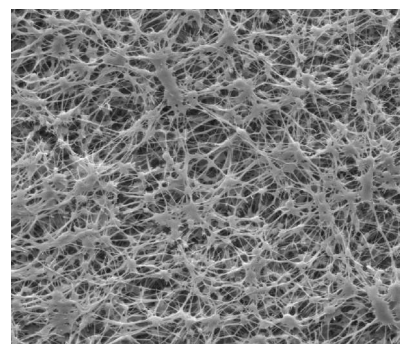
货号	孔径	直径	包装规格
Cat. NO.	Pore size	Diameter	Qty/pkg
MMC4710	0.10um	47mm	100
MMC4720	0.20um	47mm	100
MMC4745	0.45um	47mm	100
MMC4780	0.80um	47mm	100
MMC5010	0.10um	50mm	100
MMC5020	0.20um	50mm	100
MMC5045	0.45um	50mm	100
MMC5080	0.80um	50mm	100

聚四氟乙烯滤膜 PTFE membrane filter

聚四氟乙烯滤膜具有极佳的化学稳定性，可用于其它滤膜不能过滤的极端液体，利用其疏水性的特点可用于空气过滤或者脱气过滤。

As PTFE membrane filter has perfect chemical stability, it may be used for the extreme liquid which other membrane filter cannot filter, and be used for air filtering or degassing filtering because of its property of hydrophobicity.

材质 Material	聚四氟乙烯 Poly tetra fluoro ethylene (PTFE)
孔径 Pore size	0.2um 0.45um
尺寸 Size	47mm 50mm
厚度 Thicknesss	60um
使用温度 Operating temperature	最高80℃ Max80℃
灭菌方式 Sterilization methods	环氧乙烷灭菌，热压灭菌 (121℃，1bar)，γ射线灭菌 Ethylene oxide sterilized、 Autoclave sterilization (121℃， 1bar)、γ ray sterilization



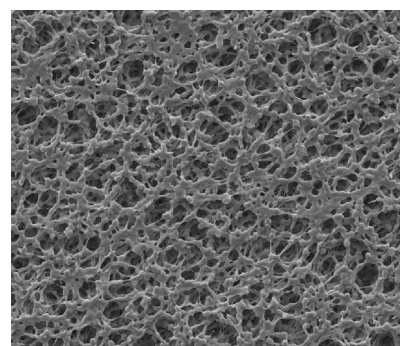
货号	孔径	直径	包装规格
Cat. NO.	Pore size	Diameter	Qty/pkg
MPT4720	0.20um	47mm	100
MPT4745	0.45um	47mm	100
MPT5020	0.20um	50mm	100
MPT5045	0.45um	50mm	100

聚偏氟乙烯滤膜 PVDF membrane filter

聚偏氟乙烯滤膜具有很好的化学兼容性，能胜任绝大多数有机溶剂和强腐蚀化学品的过滤。其具有疏水性在用乙醇湿润后可以过滤水相溶液。

PVDF membrane filter has good chemical compatibility, able for filtering of most organic solvent and strong corrosive chemicals. It has hydrophobicity and may filter aqueous solution after wetting by ethanol.

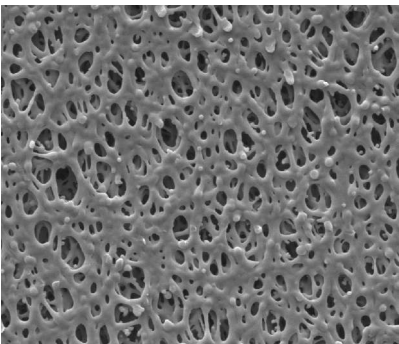
材质 Material	聚偏氟乙烯 Polyvinylidene fluoride (PVDF)
孔径 Pore size	0.2um 0.45um
尺寸 Size	47mm 50mm
厚度 Thicknesss	80um
使用温度 Operating temperature	最高80℃ Max80℃
灭菌方式 Sterilization methods	环氧乙烷灭菌、热压灭菌 (121℃，1bar)，γ射线灭菌 Ethylene oxide sterilized、 Autoclave sterilization (121℃， 1bar)、γ ray sterilization



货号	孔径	直径	包装规格
Cat. NO.	Pore size	Diameter	Qty/pkg
MPV4720	0.20um	47mm	100
MPV4745	0.45um	47mm	100
MPV5020	0.20um	50mm	100
MPV5045	0.45um	50mm	100

聚醚砜滤膜 PES membrane filter

聚醚砜滤膜具有严格孔径分布、高流率、通量、低蛋白质吸附、强度高等特点，具有亲水性，常用于生物样品的过滤。
PES membrane filter has the characteristics of strict pore size distribution, high flow rate, flux, low protein adsorption, high strength, etc. It has hydrophilicity and often used for biological sample filtering.



材质 Material	聚醚砜 Polyethersulfone (PES)
孔径 Pore size	0.2um 0.45um
尺寸 Size	47mm 50mm
厚度 Thicknesss	80um
使用温度 Operating temperature	最高65℃ Max65℃
灭菌方式 Sterilization methods	环氧乙烷灭菌，热压灭菌 (121℃，1bar)，γ 射线灭菌 Ethylene oxide sterilized、 Autoclave sterilization (121 °C， 1bar)、γ ray sterilization

货号	孔径	直径	包装规格
Cat. NO.	Pore size	Diameter	Qty/pkg
MPE4720	0.20um	47mm	100
MPE4745	0.45um	47mm	100
MPE5020	0.20um	50mm	100
MPE5045	0.45um	50mm	100



一次性针式过滤器（离子色谱）Syringe filter - IC

技术指标 Technical Specification

外壳 Housing Material	医用级聚丙烯 Medical level polypropylene
预过滤 Pre-filter	聚丙烯纤维 Polypropylene fiber
滤膜 Membrane	尼龙 Nylon (NYL)
	聚醚砜 Polyethersulfone (PES)
	亲水聚四氟乙烯 Hydrophilic Poly tetra fluoro ethylene (PTFE)
进口 Inlet	阴鲁尔锁扣接头 Female Luer-lock
出口 Outlet	阳鲁尔滑动接头 Male Luer slip
过滤面积 Filtration area	0.78cm ² (Ø13mm) 、 3.8cm ² (Ø25mm)
死体积 Hold-up volume	30ul (Ø13mm) 、 100ul (Ø25mm)
温度 Temperature	最高45℃ Max 45 °C
使用压力 Inlet pressure	最大100psi (Ø13mm) 80psi (Ø25mm) Max100psi (Ø13mm) 80psi (Ø25mm)

IC证书 IC Certificate

本公司对出厂的每个批次的IC级一次性针式过滤器样品进行离子色谱分析，将经过过滤器过滤后的1ml纯水进行分析，显示其离子溶出水平达到离子色谱分析用水平。

Our company will conduct IC analysis to each batch of IC-level disposable syringe filter samples and analyse the 1 ml purified water being filtered, showing its ion dissolution capacity up to the standard of IC analysis level.

离子残留 Extractables

离子名称 Ion*	ppb
Cl ⁻	<30
SO ₄ ²⁻	<30
NO ₃ ⁻	<40

* 经过离子色谱检测 Determined by ion chromatography



货号 Cat. NO.	膜种类 Membrane Type	孔径 Pore size	直径 Diameter	包装规格 Qty/pkg
TNL1320	Nylon	0.20um	13mm	200
TNL1345	Nylon	0.45um	13mm	200
TNL2520	Nylon	0.20um	25mm	100
TNL2545	Nylon	0.45um	25mm	100
TPE1320	PES	0.20um	13mm	200
TPE1345	PES	0.45um	13mm	200
TPE2520	PES	0.20um	25mm	100
TPE2545	PES	0.45um	25mm	100
TPT1320	PTFE	0.20um	13mm	200
TPT1345	PTFE	0.45um	13mm	200
TPT2520	PTFE	0.20um	25mm	100
TPT2545	PTFE	0.45um	25mm	100

一次性针式过滤器（液相色谱）Syringe filter - HPLC

技术指标 Technical Specification

外壳 Housing Material	医用级聚丙烯 Medical level polypropylene
预过滤 Pre-filter	聚丙烯纤维 Polypropylene fiber
	玻璃纤维 Glass fiber
滤膜 Membrane	尼龙 Nylon (NYL)
	混合纤维素 Mix cellulose (MCE)
	聚四氟乙烯 Poly tetra fluoro ethylene (PTFE)
	聚偏氟乙烯 Polyvinylidene fluoride (PVDF)
	醋酸纤维素 Cellulose acetate (CA)
进口 Inlet	阴鲁尔锁扣接头 Female Luer-lock
出口 Outlet	阳鲁尔滑动接头 Male Luer slip
过滤面积 Filtration area	0.78cm ² (Ø13mm) 、3.8cm ² (Ø25mm)
死体积 Hold-up volume	30ul (Ø13mm) 、100ul (Ø25mm)
温度 Temperature	最高45℃ Max45℃
使用压力 Inlet pressure	最大100psi (Ø13mm) 80psi (Ø25mm) Max100psi (Ø13mm) 80psi (Ø25mm)

HPLC证书 HPLC Certificate

本公司对出厂的每个批次的HPLC级一次性针式过滤器样品进行紫外吸收比对，将经过滤器过滤后的1ml乙腈和1ml纯水进行分析，显示在214nm及254nm没有强度大于0.004AUFS吸收峰。
Our company will conduct ultraviolet absorption comparison for each batch of HPLC-level syringe filter sample and analyse the 1 ml acetonitrile and 1 ml purified water after filtering, without strength more than 0.004 AUFS absorption peak during 214nm and 254nm.



货号	膜种类	孔径	直径	包装规格
Cat. NO.	Membrane Type	Pore size	Diameter	Qty/pkg
TNL1320	Nylon	0.20um	13mm	200
TNL1345	Nylon	0.45um	13mm	200
TNL2520	Nylon	0.20um	25mm	100
TNL2545	Nylon	0.45um	25mm	100
TMC1320	MCE	0.20um	13mm	200
TMC1345	MCE	0.45um	13mm	200
TMC2520	MCE	0.20um	25mm	100
TMC2545	MCE	0.45um	25mm	100
TPT1320	PTFE	0.20um	13mm	200
TPT1345	PTFE	0.45um	13mm	200
TPT2520	PTFE	0.20um	25mm	100
TPT2545	PTFE	0.45um	25mm	100
TPV1320	PVDF	0.20um	13mm	200
TPV1345	PVDF	0.45um	13mm	200
TPV2520	PVDF	0.20um	25mm	100
TPV2545	PVDF	0.45um	25mm	100
TCA1320	CA	0.20um	13mm	200
TCA1345	CA	0.45um	13mm	200
TCA2520	CA	0.20um	25mm	100
TCA2545	CA	0.45um	25mm	100

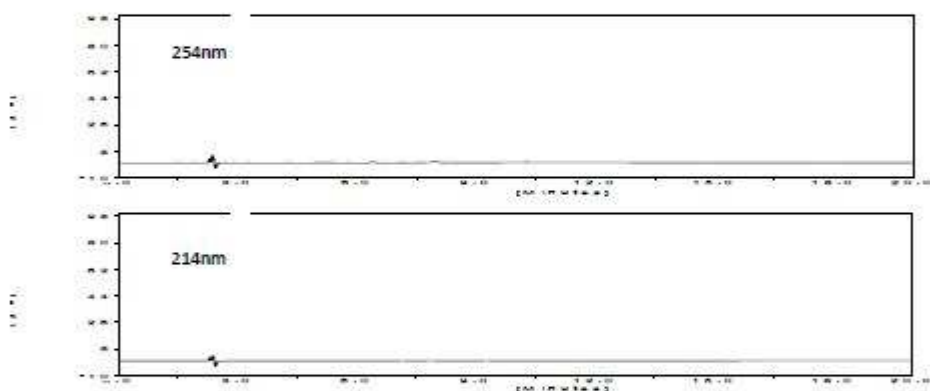


Certificate of Analysis

Disposable Syringe Filters
13mm PTFE 0.45um

Product No. TPT1345

Lot No. 110922 sample



HPLC Conditions

Sample: 0.5ml Acetonitrile, filtered Syringe filter
Column: Sinochrom ODS-BP 5um 4.5mmX 250mm
Eluent: Acetonitrile : water = 80:20
Detector: 214nm 254nm
Injection volume: 20ul

2011-09-22

Tianjin Fuji Science & Technology Co., Ltd.

灭菌一次性针式过滤器 Sterilized Syringe filter

技术指标 Technical Specification

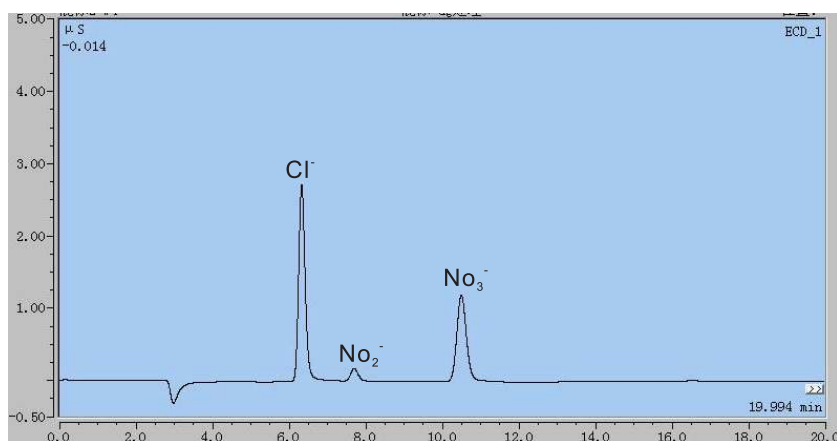
外壳 Housing Material	医用级聚丙烯 Medical level polypropylene
滤膜 Membrane	尼龙 Nylon (NYL)
	聚偏氟乙烯 Polyvinylidene fluoride (PVDF)
	聚醚砜 Polyethersulfone (PES)
进口 Inlet	阴鲁尔锁扣接头 Female Luer-lock
出口 Outlet	阳鲁尔滑动接头 Male Luer slip
过滤面积 Filtration area	0.78cm ² (Ø13mm) 、 3.8cm ² (Ø25mm)
死体积 Hold-up volume	30ul (Ø13mm) 、 100ul (Ø25mm)
温度 Temperature	最高45℃ Max45 ℃
使用压力 Inlet pressure	最大100psi (Ø13mm) 80psi (Ø25mm) Max100psi (Ø13mm) 80psi (Ø25mm)
灭菌方式 Sterilization methods	环氧乙烷灭菌、γ射线灭菌 Ethylene oxide sterilized、 γ ray sterilization



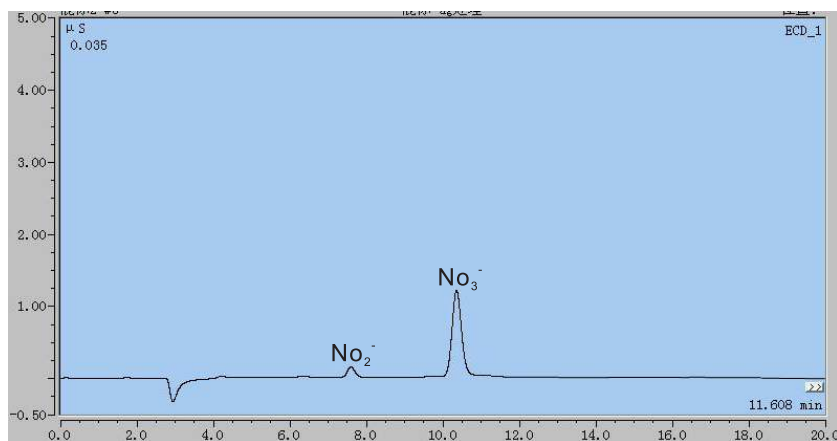
货号	膜种类	孔径	直径	包装规格
Cat.NO.	Membrane Tpye	Pore size	Diameter	Qty/pkg
TNL1320	Nylon	0.20um	13mm	100
TNL1345	Nylon	0.45um	13mm	100
TNL2520	Nylon	0.20um	25mm	40
TNL2545	Nylon	0.45um	25mm	40
TPV1320	PVDF	0.20um	13mm	100
TPV1345	PVDF	0.45um	13mm	100
TPV2520	PVDF	0.20um	25mm	40
TPV2545	PVDF	0.45um	25mm	40
TPE1320	PES	0.20um	13mm	100
TPE1345	PES	0.45um	13mm	100
TPE2520	PES	0.20um	25mm	40
TPE2545	PES	0.45um	25mm	40

SPE柱 (离子色谱) SPE column - IC

货号	填料	型号	包装规格
Cat. NO.	Filler	Model	Qty/pkg
SIC1830	C18	300mg	100
SIRP05	RP	0.5cc	100
SIRP10	RP	1.0cc	100
SIH05	H	0.5cc	100
SIH10	H	1.0cc	100
SIAg05	Ag	0.5cc	100
SIAg10	Ag	1.0cc	100
SINa05	Na	0.5cc	100
SINa10	Na	1.0cc	100
SIAgH10	Ag/H	1.0cc	100
SIAgNa10	Ag/Na	1.0cc	100



未处理
Untreated



Ag/Na柱处理后
Ag/Na Column After treatment

符合GB/T 5009.33—2008食品中亚硝酸盐与硝酸盐的测定要求
Meet the test requirements of Nitrites and Nitrates of food of GB/T 5003.33—2008.

SPE柱 (液相色谱) SPE column - HPLC

货号	填料	型号	包装规格
Cat. NO.	Filler	Model	Qty/pkg
SHS11001	Silica	100mg/1ml	100
SHS11003	Silica	100mg/3ml	100
SHS12503	Silica	250mg/3ml	100
SHS15003	Silica	500mg/3ml	100
SHS15006	Silica	500/6ml	50
SHS11K06	Silica	1000mg/6ml	50
SHFL1003	Florisil	100mg/3ml	100
SHFL2503	Florisil	250mg/3ml	100
SHFL5003	Florisil	500mg/3ml	100
SHFL5006	Florisil	500/6ml	50
SHFL1K06	Florisil	1000mg/6ml	50
SHAN1003	Alumina N	100mg/3ml	100
SHAN2503	Alumina N	250mg/3ml	100
SHAN5003	Alumina N	500mg/3ml	100
SHAN5006	Alumina N	500/6ml	50
SHAN1K06	Alumina N	1000mg/6ml	50
SHAA1003	Alumina A	100mg/3ml	100
SHAA2503	Alumina A	250mg/3ml	100
SHAA5003	Alumina A	500mg/3ml	100
SHAA5006	Alumina A	500/6ml	50
SHAA1K06	Alumina A	1000mg/6ml	50
SHAB1003	Alumina B	100mg/3ml	100
SHAB2503	Alumina B	250mg/3ml	100
SHAB5003	Alumina B	500mg/3ml	100
SHAB5006	Alumina B	500/6ml	50
SHAB1K06	Alumina B	1000mg/6ml	50

货号	填料	型号	包装规格
Cat. NO.	Filler	Model	Qty/pkg
SHC181001	C ₁₈	100mg/1ml	100
SHC182503	C ₁₈	250mg/3ml	100
SHC185003	C ₁₈	500mg/3ml	100
SHC185006	C ₁₈	500/6ml	50
SHC81001	C ₈	100mg/1ml	100
SHC82503	C ₈	250mg/3ml	100
SHC85003	C ₈	500mg/3ml	100
SHC85006	C ₈	500/6ml	50
SHNH1001	NH ₂	100mg/1ml	100
SHNH2503	NH ₂	250mg/3ml	100
SHNH5003	NH ₂	500mg/3ml	100
SHNH5006	NH ₂	500/6ml	50
SHCN1001	CN	100mg/1ml	100
SHCN2503	CN	250mg/3ml	100
SHCN5003	CN	500mg/3ml	100
SHCN5006	CN	500/6ml	50



产品分析证书
CERTIFICATE OF ANALYSIS



Certificate of Analysis

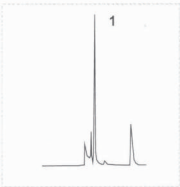
Certificate of Analysis

Item	Unit	Specifications	Lot Data
Surface Area	m ² /g	250 - 350	302
Pore Volume	ml/g	0.80 ± 0.10	0.72
Bulk Density	g/ml	0.50 ± 0.10	0.56
pH	-	7.0 ± 1.0	6.8
Loss on Drying	%	5.0 ± 2.0	4.0
Particle Size Distribution	%		
On 75 µm	%	10 % max.	0.0
38 - 75 µm	%	80 % min.	97.8
Thru 38 µm	%	10 % max.	2.2

2010.09.28

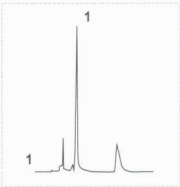
Shanghai Jishi Science & Technology Co., Ltd.

产品检验报告



图片 1

阿片（粉）供试液中
吗啡含量测定的HPLC色谱图1吗啡



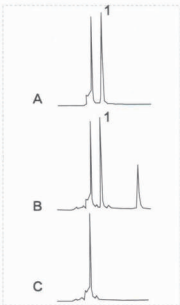
图片 2

阿片酞供试液中
吗啡含量测定的HPLC色谱图1吗啡



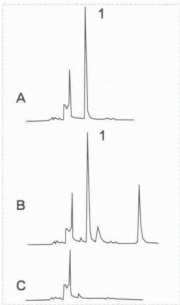
图片 3

阿片片供试液中
吗啡含量测定的HPLC色谱图1吗啡



图片 5

复方樟脑酞中
吗啡含量测定的HPLC色谱图
A对照品B供试液C阴性对照1吗啡



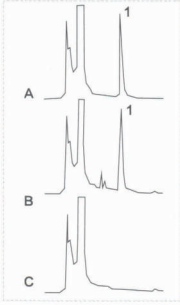
图片 4

阿桔片中吗啡含量
测定的HPLC色谱图
A对照品B供试液C阴性对照1吗啡



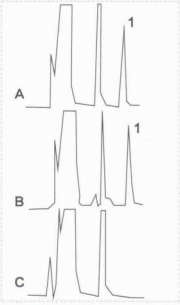
图片 7

复方甘草口服溶液中
吗啡含量测定的HPLC色谱图
A对照品B供试液C阴性对照1吗啡



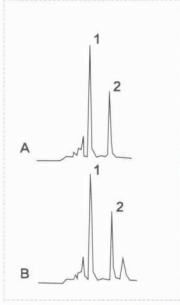
图片 6

复方甘草片中
吗啡含量测定的HPLC色谱图
A对照品B供试液C阴性对照1吗啡



图片 8

复方甘草口服液中
愈创木酚甘油醚量测定的HPLC色谱图
A对照品B供试液C阴性对照1愈创甘油醚



图片 9

罂粟果提取粉中
吗啡含量测定的HPLC色谱图
A对照品B供试液1吗啡2可待因

样品			进样量 线性范围	相关系数	回收率 均值	PSD	重复性
阿片（粉）	图片1		0. 05—0. 25μg	0.9995	99.03%	1.5%	1.4%
阿片酞	图片2		0. 40—2. 00μg	0.9998	99.40%	2.0%	1.3%
阿片片	图片3		0. 12—0. 80μg	0.9998	98.99%	1.7%	0.5%
阿桔片	图片4		0. 40—2. 00μg	0.9998	100.91%	0.8%	1.6%
复方樟脑酞	图片5		0. 40—2. 00μg	0.9998	99.52%	1.4%	1.8%
复方甘草片	图片6		0. 12—0. 80μg	0.9998	100.92%	1.5%	0.8%
复方甘草 口服溶液	吗啡	图片7	0. 12—0. 80μg	0.9998	98.00%	0.4%	1.2%
	愈创甘油醚	图片8	0. 33—1. 65μg	0.9997	99.58%	1.2%	0.2%
罂粟果 提取物（粉）	吗啡	图片9	0. 40—2. 00μg	0.9998	99.76%	2.1%	1.5%
	可待因	图片9	0. 20—1. 00μg	0.9995	98.86%	3.2%	3.2%



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