



FINETECH RESEARCH AND INNOVATION CORP.



HPLC chromatography and biochemical consumables



Syringe Filter



Glass Microfiber Filter



Membrane Filter



Centrifuge Tubes



50mm Air Filter



Sterile Syringe Filter



Filter Holder



Sample Vials



Rubber Stopper

Made in Taiwan

Professional Syringe Filter Manufacturer

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finetech.trade@yahoo.com.tw
[http:// en.finetech-filter.com](http://en.finetech-filter.com)

Company profile

Finetech research and innovation Corporation has engaged in medical field for many years. We are concentrating on the manufacturing, research and innovation of the syringe filters and the sales of Lab equipment and supplies.



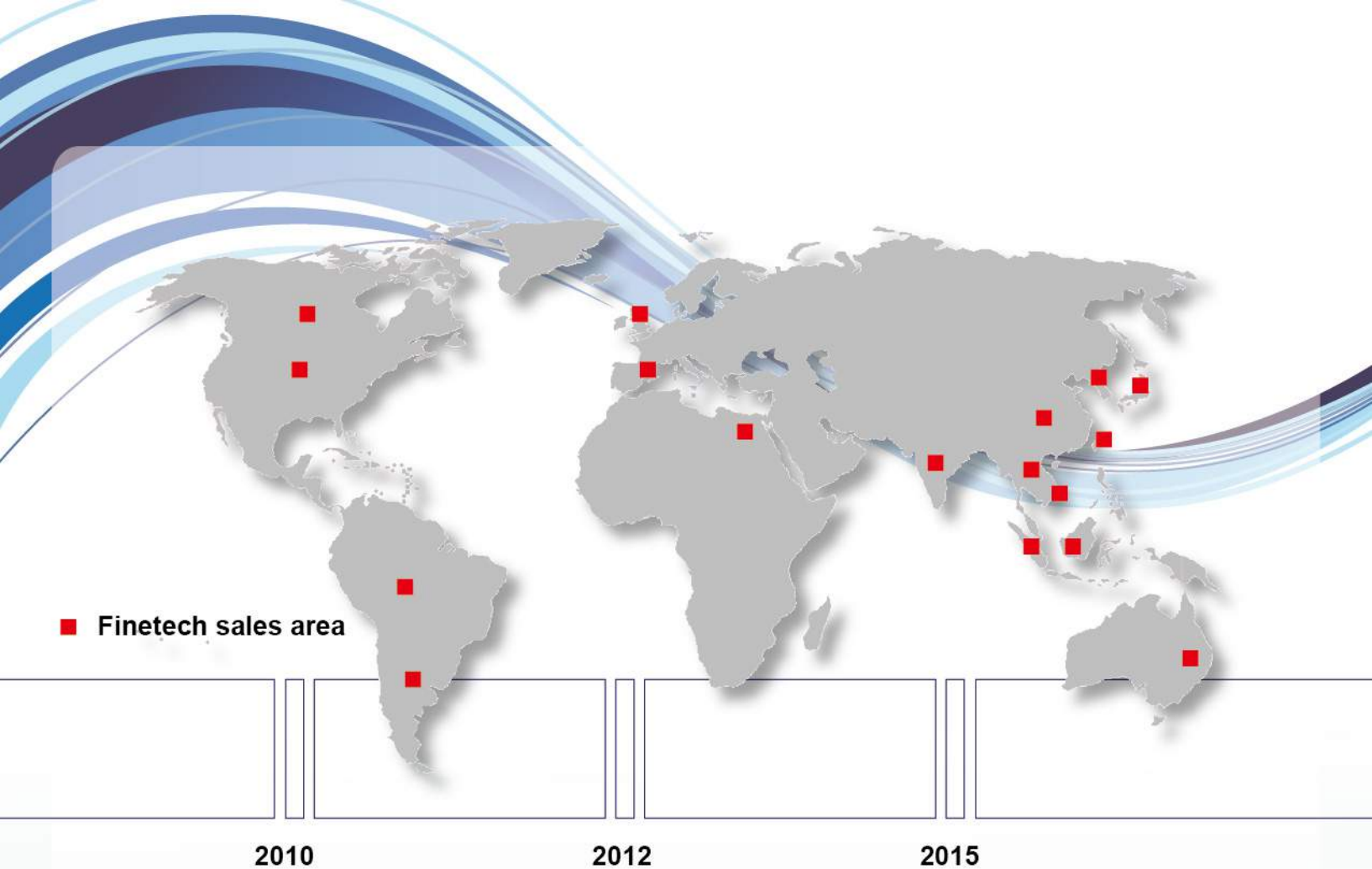
1999

2005

2009



- 1999 - Finetech Research and Innovation Corporation was founded.
- 2005 - Awarded for reputation of the technology development of Transducer Protector by government SBIR.
 - FINETECH has been engaging with the field of gas filtration and Dialysis. Receive the medical device award from Taiwan Government Pioneer of Transducer Protector manufactured in Taiwan. Transducer protector is for medical hemodialysis
- 2006 - We are the pioneer of Transducer Protector manufactured in Taiwan out on the market.
 - Award of Small Business Innovation Research(SBIR)-Anti-Slip Transducer Protector was developed
- 2008 - Government award to the high reputation of the technology development of Transducer Protector which can be sterilized by autoclave.
 - Award of Small Business Innovation Research(SBIR) - We develop Transducer Protector which can be sterilized by autoclave.
- 2009 - 1st syringe filter manufactured in Taiwan. Manufactured in Clean Room



- 2010 - Awarded for reputation of the “Biological technology Research And Development Technological Plan”, held by the Industrial Development Bureau, Ministry of Economic Affairs of Taiwan.
- Award of biotechnical development plan - 1st syringe filter of Development and Research was manufactured in Taiwan. Manufactured in Clean Room
- 2012 - Finetech Research and Innovation Corporation have certified to the ISO9001 、ISO13485.
- Award of biotechnical development plan - The 1st 50mm Air filter and various types syringe filter of Development and Research was manufactured in Taiwan
- 2013 - More than 100,000 pcs SFS/month we manufacture and sell to many countries, such as Korea, Japan, UK and so on.
- Award of Conventional Industry Technology Development (CITD) by Ministry of Economic Affairs. Development of high economical value in new type of transducer protector
- 2014 - Award of Small Business Innovation Research(SBIR)- Development of sterile syringe filters, which be used for biomedical
- “Vietnam office” of Finetech Research and Innovation Corporation is running

Process of Production

Plastic Injection

Examination

Hot welding

Quality Control

Packing

Syringe filter is designed to provide efficient filtration of aqueous and organic solutions. It can be used to remove particles from a sample, prior to analysis by HPLC and also available for the filtration of gases, and for the removal of bacteria from a sample. Our products are widely used in environmental, pharmaceutical, biotechnology, and agricultural testing laboratories.

Product research and development have been our focus and constant goal. With years of effort in R & D and production, we have developed various membranes for FT Syringe Filters. Now we can provide 13mm, 25mm and 33mm syringe filters and available with filter membranes of the following materials: Hydrophilic PVDF, Hydrophilic, Hydrophobic PTFE, Nylon, PES and MCE. Recently, our new sterile syringe filter has been launched on the market. Hope to provide various products for our customers.

Patents - Syringe Filter



ISO-9001& ISO-13485 Certificates



A. Filtration Products

A1. Syringe Filter	P.1- 9
A1-1. "PureTech"-Syringe Filter	
A1-2. "ProTech"-Syringe Filter	
A1-3. "DualTech"-Syringe Filter	
A1-4. Sterile Syringe Filter	
A2. 50mm Air Vent Filter	P.10-12
A3. Filter Holder	P.13
A4. Membrane Filter	P.14-17
A5. Glass Fiber Filter	P.18-23
A5-1. General Glass Fiber Filter	
A5-2. TCLP Glass Fiber Filter	
A5-3. SS Glass Fiber Filter	
A5-4. TSP Glass Fiber Filter	

B. Sample Vials/ Container

B1. Sample Vials	P.25-37
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C. Biochemical Consumables

C1. Centrifuge Tubes	P.39-41
C2. Rubber Stopper	P.42
C3. PTFE Tubes	P.43
C4. Transfer Pipets	P.44

D. Life Science Laboratory - Plastic Products

D1. PCR Single & 8-Strip Tubes --	P.48-49
D2. qPCR & 8-Strip Tubes.....	P.50-51
D3. PCR & qPCR Plates	P.52-53
D4. Seals	P.54-55

❖ A1-1 PURETECH[™] - Syringe Filter

Finetech syringe filters are quality-assured filters and offered a competitive price. The Classic range is available in all of the major membranes including Nylon, Hydrophilic and Hydrophobic PTFE, PES, MCE and PVDF, which are supplied in 13mm and 25mm for mats in virgin medical polypropylene housing.

The new design patent NO. D 146280

The new patent NO. M 417540

- ◆ **Medical** Polypropylene housing
- ◆ **Maximum** chemical compatibility
- ◆ **Low** hold-up volume
- ◆ **Various** membrane choices



13mm

- Housing material : Medical Polypropylene
- Filtration area : 0.65 cm²
- Process Volume : 10 mL
- Hold-up volume : <25 µl
- Maximum Inlet Pressure Bar (PSI) : 7bar(100psi)
- Highest Temp. : 45 °C

- Housing material : Medical Polypropylene
- Filtration area : 3.9 cm²
- Process Volume : 100 mL
- Hold-up volume : <100 µl
- Maximum Inlet Pressure Bar (PSI) : 5.2bar(75psi)
- Highest Temp. : 45 °C



25mm

❖ Specifications

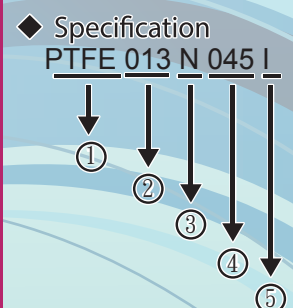
Housing material	Polypropylene(PP)
Diameter	13mm 、 25mm
Pore size (μm)	0.1 、 0.22 、 0.45 、 1.0 、 3.0 、 5.0 etc
Membrane material	Hydrophobic PTFE 、 Hydrophilic PTFE 、 PVDF Nylon 、 MCE 、 PES 、 PP 、 CA 、 RC 、 GF
Packaging	Non-sterile, 100pcs/pack

❖ Applications

- Filtration of Aqueous, Organic and Alcohol Solutions
- Analytical Sample Prep, HPLC
- IC Chromatography
- Fuel Hydraulic Fluids and Machined Parts
- Clarification
- Protein Chemistry
- Cell Culture
- Dissolution testing
- Content uniformity
- Environmental samples
- Composite assays
- Food analysis
- Biofuel analysis

❖ Ordering Information

① Membrane	② Diameter	③ Sterile	④ Pore size	⑤ Membrane characteristics
PVDF PTFE Nylon MCE CA PES PP RC GF	013=13mm 030=25mm	N(non-sterile) S(EO) G(Gamma)	022=0.22 μm 045=0.45 μm 100=1.0 μm 300=3.0 μm 500=5.0 μm	I = hydrophilic O = hydrophobic



For example : PTFE013N045I → 13mm Syringe Filter, Hydrophilic PTFE, 0.45μm

❖ A1-2 METECH[™] - Syringe Filter

The new design patent NO. D 146280

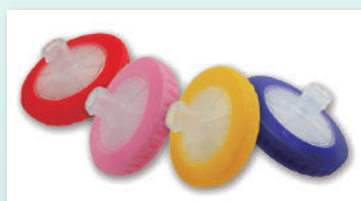
The new patent NO. M 417540

- ◆ **C**ertified quality
- ◆ **M**aximum chemical compatibility
- ◆ **L**ow adsorption of analytcs
- ◆ **H**igh flow rate and low hold-up volume
- ◆ **E**dge with screws make operator easier to use
- ◆ **E**asier to distinguish different membrane material



13mm

- Housing material : Medical Polypropylene
- Filtration ares : 0.8 cm²
- Process Volume : 10 mL
- Hold-up volume : <15 ul
- Maximum Inlet Pressure Bar (PSI) : 7bar(100psi)
- Highest Temp. : 45 °C



33mm

- Housing material : Medical Polypropylene
- Filtration ares : 4.5 cm²
- Process Volume : 100 mL
- Hold-up volume : <150 ul
- Maximum Inlet Pressure Bar (PSI) : 5.2(75)
- Highest Temp. : 45 °C



❖ Specifications

Housing material	Polypropylene(PP)
Diameter	13mm 、 33mm
Pore size (μm)	0.2 、 0.22 、 0.45 、 1.0 、 3.0 、 5.0 etc
Type of Membrane	Hydrophobic PTFE 、 Hydrophilic PTFE 、 PVDF Nylon 、 MCE 、 PES 、 PP 、 CA 、 RC 、 GF
Packaging	Non-sterile, 100pcs/pack

❖ Applications

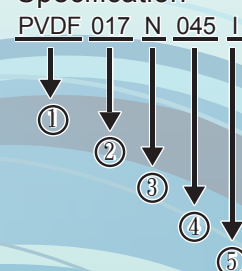
- HPLC sample preparation
- Dissolution testing
- Content uniformity
- Environmental samples
- Composite assays
- Food analysis
- Biofuel analysis



❖ Ordering Information

① Membrane	② Diameter	③ Sterile	④ Pore size	⑤ Membrane characteristics
PVDF PTFE Nylon MCE CA PES PP RC GF	017=13mm 033=33mm	N(non-sterile) S(EO/Gamma)	022=0.22 μm 045=0.45 μm 100=1.0 μm 300=3.0 μm 500=5.0 μm	I = hydrophilic O = hydrophobic

◆ Specification

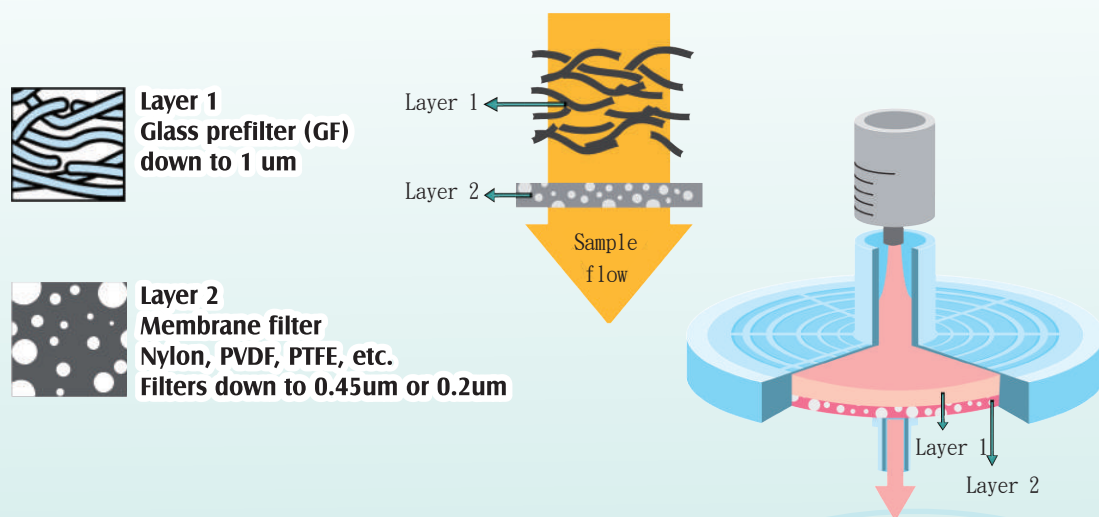


For example : PTFE017N045I → 13mm Syringe Filter, Hydrophilic PTFE, 0.45μm, Color-coding

❖ A1-3 DUALTECH[™] - Syringe Filter

Syringe filter is more retentive than standard 25mm devices and available with multi-layer prefilters.

- ◆ **Superior performance**
- ◆ **Extends membrane life**
- ◆ **Increase volume throughput**
- ◆ **Doubles the volume of sample filtered compared with other conventional filters**



❖ Ordering Information

◆ Specification

PVDF	P	013	N	045	I
↓	or G	↓	↓	↓	↓
①		②	③	④	⑤

① Membrane		② Diameter	③ Sterile	④ Pore size	⑤ Membrane characteristics
PVDF	PP=P GF=G	non color-coding 013=13mm 030=25mm	N(non-sterile) S(EO/Gamma)	022=0.22 µm 045=0.45 µm	I = hydrophilic O = hydrophobic
PTFE Nylon MCE CA PES PP RC GF		color-coding 017=13mm 033=33mm			

For example : PTFEG050N022O → 50mm, PTFE+GF, 0.22µm

❖ A1-4 STARTECH[™] - Sterile Syringe Filter

"Finetech" pre-sterilized syringe filters are available in pore size of 0.22um, 0.45um and various membranes to suit different applications for filtration in the laboratory.

- ◆ **I**ncreases flow rate and throughput
- ◆ **L**ow hold-up volume (less than 25µL or 100µL)
- ◆ **L**owest extractables
- ◆ **S**terile individual blister bubble pack



13mm

- Housing material : Medical Polypropylene
- Filtration area : 0.8 cm²
- Process Volume : 10 mL
- Hold-up volume : <15 ul
- Maximum Inlet Pressure Bar (PSI) : 7bar(100psi)
- Highest Temp. : 45 °C



A. Filtration Products

- Housing material : Medical Polypropylene
- Filtration area : 4.5 cm²
- Process Volume : 100 mL
- Hold-up volume : <150 ul
- Maximum Inlet Pressure Bar (PSI) : 5.2(75)
- Highest Temp. : 45 °C

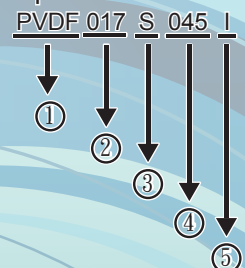


33mm

❖ Ordering Information

① Membrane	② Diameter	③ Sterile	④ Pore size	⑤ Membrane characteristics
PES PVDF PTFE Nylon MCE CA	017=13mm 033=33mm	N(non-sterile) S(EO/Gamma)	022=0.22 um 045=0.45 um	I = hydrophilic O = hydrophobic

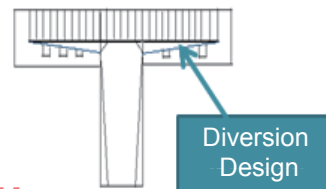
◆ Specification



For example : PVDF033S022I → 25mm ,PVDF membrane, sterile, transparent

❑ Syringe Filter Patent

Outlet with the drained cell Design
It helps outlet liquid to flow smoothly.



■ Certificate of Analysis

FINETECH RESEARCH AND INNOVATION CORP.

Certificate of Analysis

Disposable Syringe Filters

Product Item : PVDF030N022I

Lot No. : A1111101111I

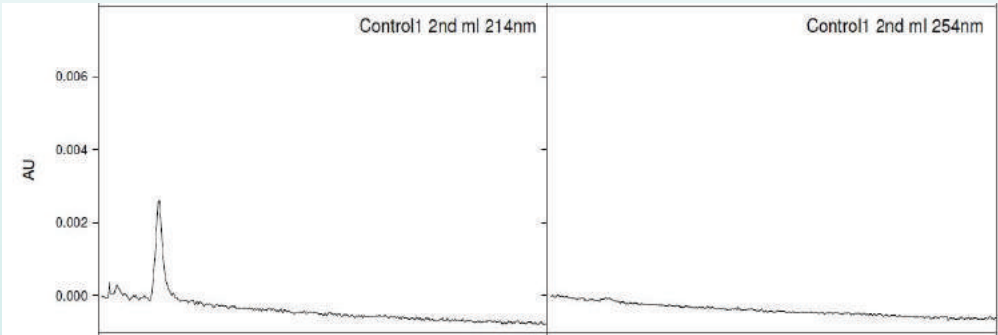
Sampling : Samples pulled at defined intervals throughout the lot, 10 units per lot

Page : 1/1

Date : 2012/01/11

Inspector : H.L.,Su

Test	Specification	Results
Bubble point test	>1.5bar	Conform
Hold-up volume	<100ul	Conform
HPLC Extractables	<0.004 Absorbance units	Conform
Dimensional Conformity of Luer Fittings	Withstands gauge tolerances in accordance with ISO594-1	Conform
Housing Burst Test	Burst pressure of ≥ 150 psi	Conform



The information is based on our present state of knowledge and is intended to provide general notes on our products on their use. It should therefore not be constructed as guaranteeing specific properties of the products described or their suitability for a particular application. Any existing industrial property rights must be observed. The quality of our products guaranteed under our General Condition of Sale.

A. Filtration Products

Test Report

Without Phthalates Test by SGS.

Including BBP, DEHP, DIDP, DINP, DNOP, DBP TEST. (SGS Certificate)



測試報告

Test Report

號碼(No.) : CY/2015/C0685 日期(Date) : 2015/12/30 頁數(Page) : 2 of 3

鈺泰研究創新股份有限公司

FINETECH RESEARCH AND INNOVATION CORP.

臺中市南屯區文山里文山九街72號

NO. 72, WENSHAN 9TH ST., NANTUN DIST., TAICHUNG CITY 408, TAIWAN (R. O. C.)



測試結果(Test Results)

測試部位(PART NAME) No.1 : 整體混測 (MIXED ALL PARTS)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result) No. 1
鄰苯二甲酸二(2-乙基己基)酯 / DEHP (Di-(2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	%	參考CNS 15138方法, 以氣相層析/ 質譜儀檢測之。 / With reference to CNS 15138 method. Analysis was performed by GC/MS.	0.003	n. d.
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	%		0.003	n. d.
鄰苯二甲酸二異壬酯 / DINP (Di- isononyl phthalate) (CAS No.: 28553- 12-0; 68515-48-0)	%		0.010	n. d.
鄰苯二甲酸二異癸酯 / DIDP (Di- isodecyl phthalate) (CAS No.: 26761- 40-0; 68515-49-1)	%		0.010	n. d.
鄰苯二甲酸丁苯酯 / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)	%		0.003	n. d.
鄰苯二甲酸二正辛酯 / DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0)	%		0.003	n. d.
鄰苯二甲酸二甲酯 / DMP (Di-methyl phthalate) (CAS No.: 131-11-3)	%		0.003	n. d.
鄰苯二甲酸二乙酯 / DEP (Di-ethyl phthalate) (CAS No.: 84-66-2)	%		0.003	n. d.

備註(Note) :

1. mg/kg = ppm; 0.1wt% = 1000ppm
2. n. d. = Not Detected (未檢出)
3. MDL = Method Detection Limit (方法偵測極限值)
4. 樣品的測試是基於申請人要求混合測試, 報告中的混合測試結果不代表其中個別單一材質的含量。
(The samples was/were analyzed on behalf of the applicant as mixing sample in one testing. The above results was/were only given as the informality value.)

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SGS Taiwan Ltd. 台灣檢驗科技股份有限公司

SGS Wu Chuan 7th Road, New Taipei Industrial Park, Wu Ku District, New Taipei City, Taiwan 新北市五股區新北產業園七路25號
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Member of the SGS Group

A2. 50mm Air Vent Filter

❖ PASS HEPA TEST

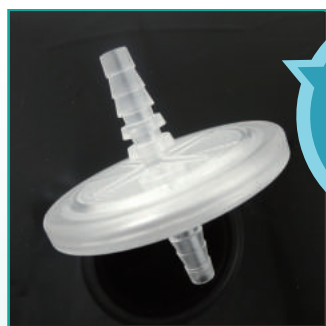
- ◆ Autoclaveable
- ◆ High flow rates at low differential pressures
- ◆ Rugged PC housing withstands high temperatures, pressures and aggressive solvents
- ◆ High particulate-loading capability to maintain flow rates over extended periods
- ◆ Manufactured in clean room under controlled Conditions



► **Type1** 1/8" Male NPT



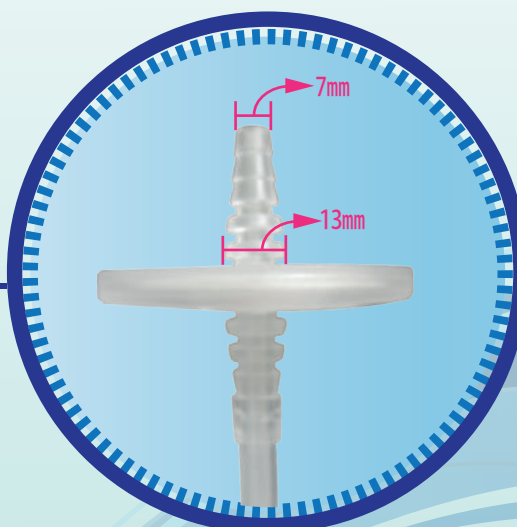
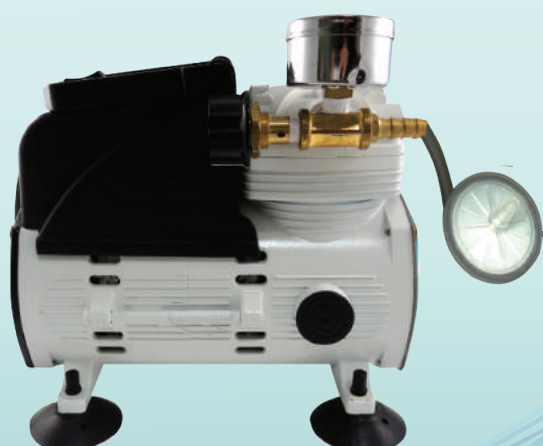
► **Type2**
1/8" Male NPT
x Stepped Hosebarb



► **Type3**
Stepped Hosebarb x Stepped Hosebarb

❖ Applications

- In-line gas filter
- Deliver Sterile air
- Smoke excluded
- Benchtop Fermentors
- Vacuum Pump
- liquid filtration, media membrane including PVDF 、Hydrophilic PTFE 、Nylon 、MCE 、PES for customer choose



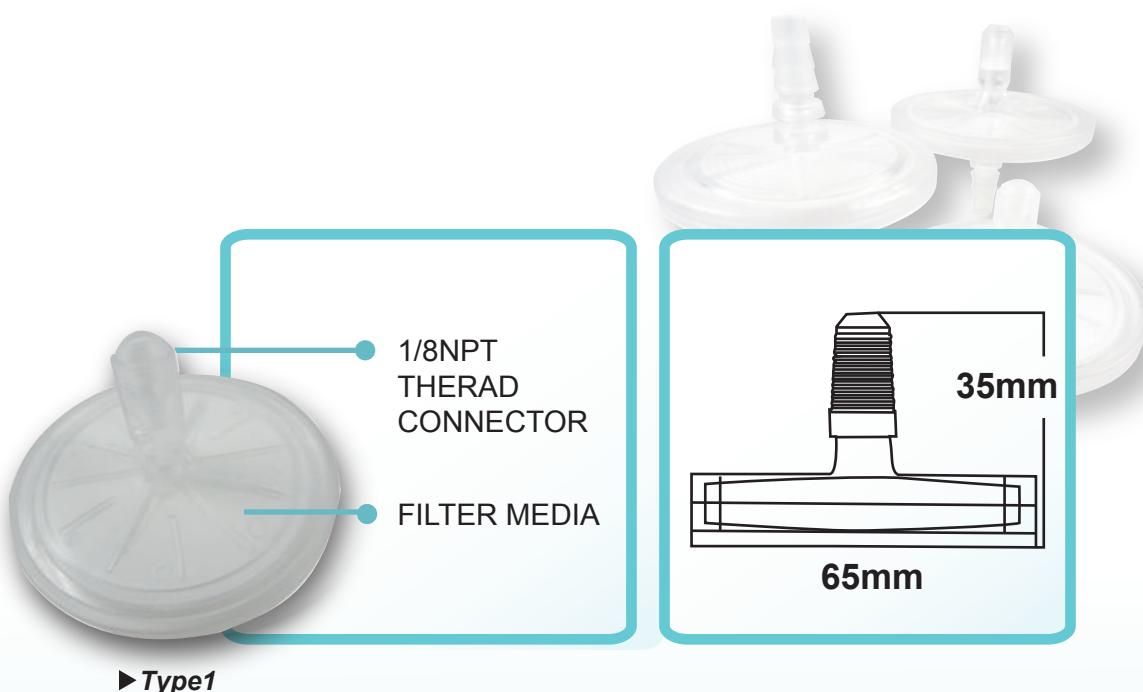
► Accepted ID7-13mm tubing



► **Type3** Stepped Hosebarb



► **Type4** 1/2" Male NPT



❖ Specifications

Part No.	PTFE050N022O-PC/PP			
Model	► Type1	► Type2	► Type3	► Type4
Biosafety	Meet the requirements of USP Class VI Biological Test for plastics			
Connection	Inlet: 1/8" NPT	Inlet: Stepped Hose Barb (Accepted ID7-13mm) Outlet: 1/8" NPT	Inlet: Stepped Hose Barb (Accepted ID7-13mm) Outlet: Stepped Hose Barb	Inlet: 1/2" NPT Outlet: Stepped Hose Barb
Filtration area	19.6 cm ²			
Air flow rate	18-20 LPM@1kg/cm ²			
Housing size	65mm			
Housing material	Polycarbonate or Polypropylene			
Sterilization	EO or Autoclave			
Pore Size	0.22um 、 0.45um 、 1um or other pore size			

HEPA TEST REPORT

TTRI 財團法人紡織產業綜合研究所 Taiwan Textile Research Institute



正本
ORIGINAL

試驗報告
TEST REPORT

日期: 2012.04.02 收件日期: 2012.03.27

報告編號: TFFIC451 數量: 1 PC 報告頁次/頁數: (P1/1) 牽文字號: NIL

報告抬頭: Finetech Research And Innovation Corporation (T8453) 試件類別: Product

地址: No.72,Wen-Shan 9th Street,Nan-Tun District,Tai-Chung City,Taiwan

Filter Testing Report

- (1) Filter Descriptions
- (1) Manufacturer : Finetech Research And Innovation Corporation
 - (2) Product : 50mm Air Filter
 - (3) Media Color : White
- (2) Testing Conditions
- (1) Test standard : ASTM F2299-03
 - (2) Volume airflow rate : 28 LPM
 - (3) Aerosol Type : 0.3 μ m PSL
- (3) Testing Results
- (1) Initial Pressure Drop : >5000Pa
 - (2) Initial Efficiency : 99.993%

	Initial Efficiency(%)	Initial Pressure Drop (Pa)
1	99.993	>5000
2	99.994	>5000
3	99.993	>5000
4	99.992	>5000
5	99.994	>5000
Average	99.993	>5000

Test Sample



Sheng-fei Chiu

Director,
Department of Testing and
Certification
Authorized by president of
Taiwan Textile Research Institute

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Taiwan Textile Research Institute

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Finetech supply 13mm, 25mm, and 47mm filter holder. It is for aqueous solutions. Filter supports in the top and bottom parts allow filtration in either direction.

- ◆ Used for particulate filtration of small volumes using a syringe.
- ◆ It can be used as a final filter for gas systems.

❖ Specifications



13mm



25mm



47mm

Model No.	Holder-13
Description	13mm Filter Holder
Materials	polypropylene
Filter size	13 mm
Filtration area	1.3 cm ²
Pressure Rating (max)	2 bar
Connections	Inlet & Outlet = Luer slip
Autoclaving	20 minutes at 121°C

Model No.	Holder-25
Description	25mm Filter Holder
Materials	polypropylene
Filter size	25 mm
Filtration area	3.9 cm ²
Pressure Rating (max)	2 bar
Connections	Inlet & Outlet = Luer slip
Autoclaving	20 minutes at 121°C

Model No.	Holder-47
Description	47mm Filter Holder
Materials	polypropylene
Filter size	47 mm
Filtration area	13.8 cm ²
Pressure Rating (max)	2 bar
Connections	Inlet & Outlet = Luer slip
Autoclaving	20 minutes at 121°C

❖ A4-1 Membrane Filter - STARTECH™

- ▶ FINETECH superior membrane disc filters provide consistent and reliable results. Optimized for HPLC media preparation, pharmaceuticals and cold sterilization, they are available in a range of sizes and membranes.
- ▶ From roll membrane to membrane disc (13mm 、25mm 、47mm 、90mm 、142mm 、293mm)
- ▶ OEM is accepted.

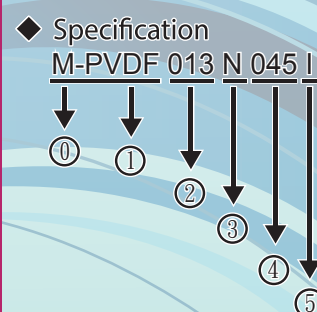
❖ Specifications

Packaging	Non-sterile (47mm:200pcs/pk)
Diameter	13mm 、25mm 、47mm 、90mm 、142mm 、293mm
Pore size	0.22μm 、0.45μm 、1.0μm 、3.0μm 、5.0μm
Membrane	Hydrophobic PTFE 、Hydrophilic PTFE 、PVDF 、Nylon MCE 、CA 、PES 、PP 、RC 、GF

❖ Ordering Information

① M	② Membrane	③ Diameter	④ Sterile	⑤ Pore size	⑥ Membrane characteristics
Membrane Disc	PES PVDF PTFE Nylon MCE CA PP GF	013= 13mm 025= 25mm 047= 47mm 090= 90mm 142=142mm 293=293mm	N(non-sterile) S(E0)	020=0.22 um 022=0.22 um 045=0.45 um 100=1.0 um 300=3.0 um 500=5.0 um	I = hydrophilic O = hydrophobic

For example : M-PVDF047N045I → 47mm, PVDF membrane, 0.45um



❖ A4-2 Sterile Membrane Filter - STARTECHTM

- ◆ Various membrane choices :
PVDF, MCE, PES, CA, Nylon
- ◆ Gridded or Non-Gridded, with
pad for MCE membrane disc
- ◆ Available pre-sterilized,
individually packed



❖ Specifications

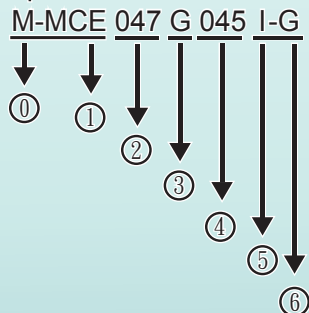
Packaging	Single Pack
Diameter	37mm 、 47mm 、 90mm
Pore size	0.22μm 、 0.45μm 、 0.8μm
Membrane	Hydrophobic PTFE 、 Hydrophilic PTFE 、 PVDF 、 Nylon CA 、 PES 、 MCE
Sterization	EO 、 Gamma

❖ Ordering Information

① M	② Membrane	③ Diameter	④ Sterile	⑤ Pore size	⑥ Membrane characteristics
Membrane Disc	PES PVDF PTFE Nylon MCE CA	037 = 37mm 047 = 47mm 090 = 90mm	S(EO) G(Gamma)	022=0.22 um 045=0.45 um 080=0.8 um 100=1.0 um 120=1.2 um	I = hydrophilic O = hydrophobic
					⑥
					G = Gridded P = Pad

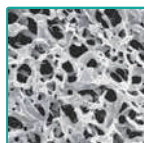
For example : M-MCE047G045I → 47mm, MCE membrane, 0.45um, gridded, sterile

◆ Specification



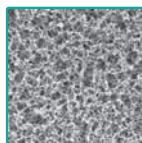
❖ Membrane Types

A. PVDF



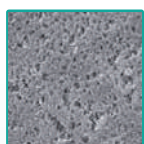
1. High flow rates and throughput
2. Low extractables
3. Broad chemical compatibility
4. Bind far less protein than Nylon or PTFE membrane

E. MCE



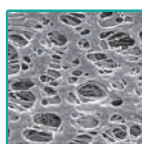
1. Apply to aqueous solvent
2. High porosity for increased flow rate

B. Nylon



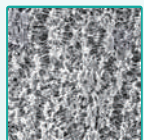
1. For general sample and solvent filtration
2. Excellent for most HPLC & GC sample and solvent preparations

F. PES



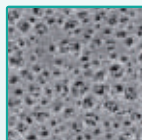
1. Minimized loss of key proteins
2. Binds significantly less protein than cellulose or Nylon
3. High Flow Rate

C. Hydrophobic PTFE



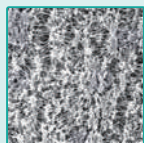
1. PTFE membrane with supporting layer polyester or polypropylene
2. Excellent chemical stability and particle retention
3. Apply to organic solvent

G. CA



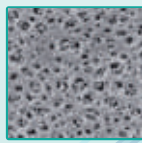
1. Filtration for aqueous sample
2. Cell Retention for liquid

D. Hydrophilic PTFE



1. PTFE membrane with supporting layer polyester or polypropylene
2. Excellent chemical stability and particle retention
3. Apply to aqueous and organic solvent

H. Glass Fiber



1. Hydrophilic Material Membrane
2. Excellent compatibility with organic solvents and strong acids (apart from hydrofluoric acid) and bases
3. High dirt-handling capacity

❖ Chemical Compatibility of Membrane

Solvent	Membrane				
	PTFE	MCE	PES	Nylon	PVDF
Acetic Acid (glacial)	R	NR	R	NR	R
Acetone	R	NR	NR	R	NR
Acetonitrile (ACN)	R	NR	NR	R	LTD
Benzene	R	R	NR	R	R
Butyl Alcohol	R	R	R	R	R
Chloroform	R	LTD	NR	NR	R
Cyclohexanone	R	NR	NR	R	NR
Dimethyl Sulfoxide(DMSO)	R	NR	NR	R	NR
EA	R	NR	NR	R	LTD
Ethers	R	NR	X	R	R
Ethyl Acetate	R	NR	NR	R	R
Ethyl Alcohol	R	R	R	R	LTD
Formaldehyde	R	NR	X	R	R
Hexane	R	R	R	R	R
Hydrochloric Acid, 1N(HCL)	R	R	R	R	R
Hydrogen Peroxide, 3%	R	NR	X	R	R
Isopropyl Alcohol	R	NR	R	LTD	R
Methanol	R	NR	R	LTD	R
Nitric Acid, 6 N	R	NR	R	NR	R
Sodium Carbanate	R	R	X	LTD	R
Water	R	R	X	R	R
Sodium Hydroxide, 3N	R	R	NR	R	R
Sulfuric Acid	R	NR	NR	NR	LTD
Tetrahydrofuran (THF)	R	NR	X	R	LTD
Toluene	R	R	R	R	R

■ R: Recommend

■ LTD: Limited

■ NR: Not Recommend

■ X: No Data

❖ A5-1. General Glass Fiber Filter

- ▶ Micro-glass filters are made of high-purity borosilicate glass microfibers that are biologically inert and resistant to most solvents and reagents with the exception of hydrofluoric acid and highly concentrated alkali solutions.
- ▶ Binder-free grades are temperature resistant to about 500 °C. Grade MG 550-HA can withstand temperatures to 550 °C.

- ◆ Binder-free micro-glass fiber filters
- ◆ Micro-glass fiber filters with binders
- ◆ Micro-glass fiber filters, supported



❖ Micro-Glass Fibers without Binder

Model No.	Basic Weight (g/m ²)	Thickness (mm)	Particle Retention in Liquids(μm)	Pressure Drop* (mbar)
MGA	52	0.23	1.6	38
MGB	143	0.70	1.0	95
MGC	52	0.24	1.2	55
MGD	120	0.53	2.7	140
MGF	75	0.45	0.7	120
MGG	65	0.28	1.5	30
MG 550-HA	65	0.3	1.5	-

*A = 10 cm² , flow velocity 400 cm² /sec

Grade	Application
MGA	Highly efficient for general laboratory filtration, clarification of buffer and reagent solutions corresponds to many international standards for air and water pollution monitoring. Foodstuff analysis, filtration of algae, bacteria cultures, proteins
MGB	Filtration of suspended solids in water, waste water analysis, pre-filters for membranes, suitable for filtration of large volumes.
MGC	Standard filter for the clarification and monitoring of waste water and water, scintillation counting on the filter, cell harvesting, hydrocarbon analysis where cellulose fibers are a inconvenience
MGD	Universal membrane pre-filter material
MGF	Higher efficiency in particle retention for smaller particles than other glass fiber grades, clarification of protein solutions, filtration of liquids prior to HPLC
MGG	Filtration and monitoring of water
MG 550-HA	Withstands temperatures till 550°C. Recommended for determining total suspended solids in water(TSS/standard method 2540D)

❖ Cross Reference

Finetech	Whatman	E-D Scientific Specialities	Advantec
MGA	GF/A	111	GA-55
MGB	GF/B	121	GB-140
MGC	GF/C	131	GC-50
MGD	GF/D	141	GD-120
MGF	GF/F	151	GF-75
MG 550-HA	934- AH	161	n/a

❖ A5-2.TCLP Glass Fiber Filter

- Meet U.S. EPA Method 1311: Toxic Characteristics Leaching Procedure (TCLP)



❖ Specifications

Model No.	M-GF142N070M
Typical Applications	U.S. EPA Method 1311
Size	142mm
Filter Material	Borosilicate glass without binder
Thickness	0.45mm
Nominal Pore Size	0.7μm
Pressure Drop*	120mbar
Penetration,0.3um(%)	<0.002

*A = 10 cm , flow velocity 400 cm /sec

❖ Cross Reference

Finetech	Whatman	E-D Scientific Specialities	Advantec
M-GF142N070M	GF/F	151	GF-75

❖ A5-3. SS Glass Fiber Filter



- ◆ Air monitoring
- ◆ Gravimetric analysis

❖ Specifications

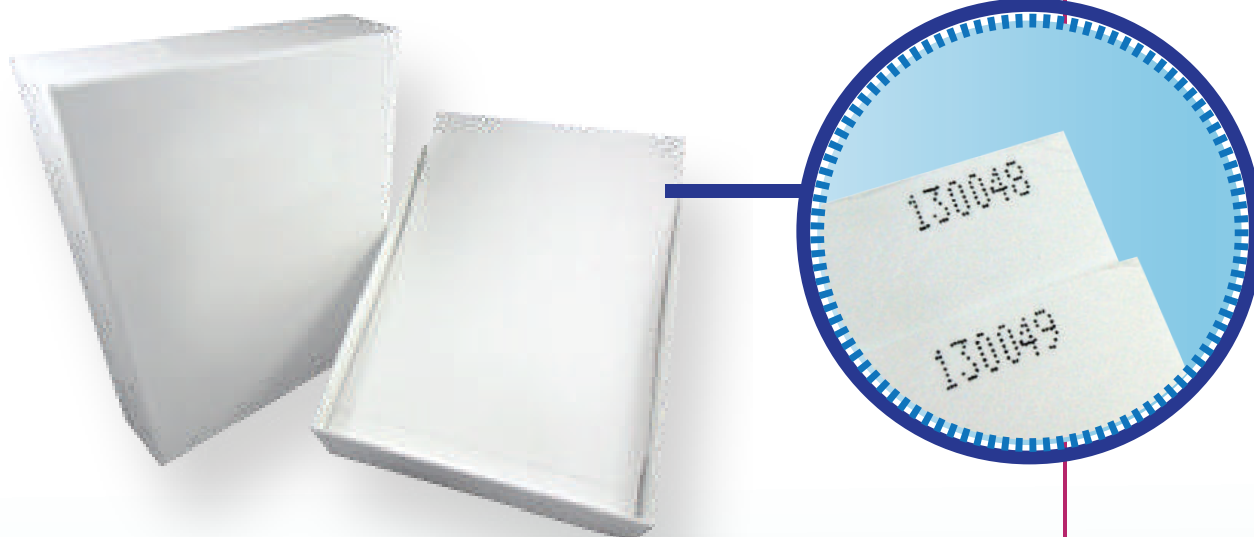
Model No.	M-GHA047N150M
Size	47mm
Basis weight	65g/m ²
Filter Material	Borosilicate glass without binder
Thickness	0.3mm
Maximum Operating Temperature	550 °C
Pressure Drop*	55mbar
DOP 0.3µm retention	>99.98/%

*A = 10 cm , flow velocity 400 cm /sec

❖ Cross Reference

Finetech	Whatman	E-D Scientific Specialities	PALL
M-GHA047N150M	934-AH	161	A/E

❖ A5 - 4. TSP Glass Microfiber Filter



❖ Specifications

Model No.	M-GHA0810N150M
Size	81mm
Basis weight	65g/m ²
Filter Material	Borosilicate glass without binder
Thickness	0.3mm
Maximum Operating Temperature	550 °C
Pressure Drop*	55mbar
DOP 0.3µm retention	>99.98/%

*A = 10 cm , flow velocity 400 cm /sec

❖ Cross Reference

Finetech	Whatman	PALL
M-GHA0810N150M	EPM 2000	A/E



B. SAMPLE VIALS

CHEMICAL STORAGE VIALS



❖ B1-1 STARTECHTM Micro Insert & Shell Vials

- ◆ All Labware Scientific shell vials are sold including polyethylene plug to assure proper fit and function.
- ◆ Inserts vials are an economical choice for many routine HPLC applications.
- ◆ Polyspring inserts are self-centering with a spring to provide a cushion against needle contact.

❖ Micro Insert



◆ Ordering Information

Part No	Size	Description	Packaging
IPA150	29*5mm	150ul Insert with mandrel interior and polymer feet, 29*5mm; suits for ND8 Vials	100PCS/PK
IPB250	29*5.7mm	250ul Insert with mandrel interior and polymer feet, 29*5.7mm; suits for ND9 Vials	100PCS/PK

❖ Shell Vials



◆ Ordering Information

Part No	Size	Description	Packaging
IA250	31*5mm	250ul Micro-Insert, 31*5mm, clear glass, flat bottom; suits for ND8 Vials	100PCS/PK
IB300	31*6mm	300ul Micro-Insert, 31*6mm, clear glass, flat bottom; suits for ND9 Vials	100PCS/PK
V18A	8.2*40mm	1ml shell vials, 1st hydrol glass clear, 8mm PE-Plug, soft, without insertion	100PCS/PK

❖ B1-2 STARTECH[®] 8mm Screw Thread Vials & Caps

FINETECH auto sampler vials, caps and septa can be compatible with kinds of auto samplers, including Agilent, Waters, Varian, Shimadzu, and etc.

- ◆ 8-425 vials are uniformly flat bottom for security with inserts.
- ◆ PTFE/Silicone septa are most popular for HPLC applications, and Pre-slit septa are easier to pierce with needles.
- ◆ Pre-assembled caps and septa are convenient and minimize contamination from handling.
- ◆ Standard narrow neck design for GC and HPLC.
- ◆ Broad range of Micro-Inserts
- ◆ Small opening requires Micro-Inserts with a diameter of 5mm Micro-Inserts



❖ Ordering Information



◆ 2ml, 8mm Small Opening Screw Vials

Capacity	Part No	Size	Description	Packaging
2ML	V8A	11.6*32mm	2ml small opening screw-thread vial, clear	100PCS/PK
2ML	V8B	11.6*32mm	2ml small opening screw-thread vial with write-on spot, clear	100PCS/PK
2ML	V8C	11.6*32mm	2ml small opening screw-thread vial, amber	100PCS/PK
2ML	V8D	11.6*32mm	2ml small opening screw-thread vial with write-on spot, amber	100PCS/PK



◆ 8mm pre-assembled Caps & Septa

Model	Part No	Size	Description	Packaging
Caps&Septa	SC8A8A	Φ8mm	white PTFE/red Silicone septa, 8mm black pp cap, 5.5mm centre hole	100PCS/PK
Caps&Septa	SC8AA8A	Φ8mm	pre-slit PTFE/red Silicone septa, 8mm black pp cap, 5.5mm centre hole	100PCS/PK
Septa	S8A	Φ8mm	white PTFE/red Silicone septa	100PCS/PK
Septa	S8AA	Φ8mm	pre-slit white PTFE/red Silicone septa	100PCS/PK

❖ B1-3 STARTECHTM 9mm Screw Thread Vials & Caps

- ◆ 9-425 vials are uniformly flat bottom for security with inserts.
- ◆ PTFE/Silicone septa are most popular for HPLC applications, and Pre-slit septa are easier to pierce with needles.
- ◆ Mercedes shape slit septa has been put into use.
- ◆ Pre-assembled caps and septa are convenient and minimize contamination from handling.



❖ Ordering Information



2ml, 9mm Opening Screw Vials

Capacity	Part No	Size	Description	Packaging
2 ML	V9A	11.6*32mm	2ml wide opening short screw-thread vial, clear	100PCS/PK
2 ML	V9B	11.6*32mm	2ml wide opening short screw-thread vial with write-on spot, clear	100PCS/PK
2 ML	V9C	11.6*32mm	2ml wide opening short screw-thread vial, amber	100PCS/PK
2 ML	V9D	11.6*32mm	2ml wide opening short screw-thread vial with write-on spot, amber	100PCS/PK

❖ Ordering Information



◆ 9mm pre-assembled Caps & Septa

Model	Part No	Size	Description	Packaging
Caps&Septa	SC9A9A	Φ9mm	white PTFE/red Silicone septa, 9mm blue screw-thread pp cap, 6mm centre hole	100PCS/PK
Caps&Septa	SC9F9F	Φ9mm	nature PTFE/white Silicone septa, 9mm blue screw-thread pp cap, 6mm centre hole	100PCS/PK
Caps&Septa	SC9AA9A	Φ9mm	pre-slit white PTFE/red Silicone septa, 9mm blue screw-thread pp cap, 6mm centre hole	100PCS/PK
Septa	S9A	Φ9mm	white PTFE/red Silicone septa	100PCS/PK
Septa	S9F	Φ9mm	nature PTFE/white Silicone septa	100PCS/PK
Septa	S9AA	Φ9mm	pre-slit white PTFE/red Silicone septa	100PCS/PK



❖ B1-4 STARTECHTM Crimp Autosampler Vials & Caps

The patented Crimp Seal is versatile, working as either a snap-on or crimp-top cap. Simply use a standard crimping tool to secure the Crimp Seal onto any crimp-top vial.

- ◆ Wide opening vial is easier to fill and provides a larger target area for auto sampler needle.
- ◆ PTFE/Silicone septa are most popular for HPLC applications, and Pre-slit septa are easier to pierce with needles.
- ◆ Pre-assembled caps and septa are convenient and minimize contamination from handling.



❖ Ordering Information

❖ 2ml Crimp-Top Vials



Capacity	Part No	Size	Description	Packaging
2ML	V11A	Φ11.6*32mm	wide opening crimp-top vial, clear	100PCS/PK
2ML	V11B	Φ11.6*32mm	wide opening crimp-top vial with write-on spot, clear	100PCS/PK
2ML	V11C	Φ11.6*32mm	wide opening crimp-top vial, amber	100PCS/PK
2ML	V11D	Φ11.6*32mm	wide opening crimp-top vial with write-on spot, amber	100PCS/PK

❖ Ordering Information



❖ Pre-assembled Caps with Septa

Model	Part No	Size	Description	Packaging
Caps&Septa	SC11A11A	Φ11*1mm	white PTFE/red Silicone septa, 11mm crimp-top aluminum cap, 5.5mm centre hole	100PCS/PK
Caps&Septa	SC11AA11A	Φ11*1mm	pre-slit white PTFE/red Silicone septa, 11mm crimp-top aluminum cap, 5.5mm centre hole	100PCS/PK
Septa	S11A	Φ11*1mm	white PTFE/red Silicone septa	100PCS/PK
Septa	S11AA	Φ11*1mm	pre-slit white PTFE/red Silicone septa	100PCS/PK
Hand Crimper	HD11		hand crimper, with 11mm crimp seals	1PC/PK
Hand Crimper	HD20		hand crimper, with 22mm crimp seals	1PC/PK



► Easily decaps using standard decapping tools.



❖ B1-5 STARTECHTM 4ml Screw Thread Vials & Caps

❖ Ordering Information



◆ 4ml Screw-Thread Vials

Capacity	Part No	Size	Description	Packaging
4ML	V13A	15*45mm	4ml screw-thread vial, clear	100PCS/PK
4ML	V13B	15*45mm	4ml screw-thread vial, clear with write-on spot	100PCS/PK
4ML	V13C	15*45mm	4ml screw-thread vial, amber	100PCS/PK
4ML	V13D	15*45mm	4ml screw-thread vial with write-on spot, amber	100PCS/PK



◆ Pre-assembled Caps with Septa

Model	Part No	Size	Description	Packaging
Caps&Septa	SC13A13A	Φ13mm	white PTFE/red Silicone septa, 13mm black screw pp cap, 8.5mm centre hole	100PCS/PK
Caps&Septa	SC13AA13A	Φ13mm	pre-slit white PTFE/red Silicone septa, 13mm black screw pp cap, 8.5mm centre hole	100PCS/PK
Caps&Septa	SC13D13B	Φ13mm	nature PTFE/nature Silicone septa, 13mm black screw pp cap, closed-top	100PCS/PK
Septa	S13A	Φ13*1.5mm	white PTFE/red Silicone septa	100PCS/PK
Septa	S13AA	Φ13*1.5mm	pre-slit white PTFE/red Silicone septa	100PCS/PK

❖ B1-6 STARTECH[®] Chemical Storage Vials

Storage vials also named sample vials, used in the package of biological agent, cosmetics high value chemistry and so on. All headspace vials are manufactured to provide uniform glass thickness which insures even heat distribution for consistent sampling reliability.

- ◆ Capacity range from 20ml to 60ml.
- ◆ Provide constant pH for duration of sample storage life.
- ◆ Chemically insert can be suitable for most chromatography and storage applications



► 20ml Glass Scintillation Vials



20ml Glass Scintillation Vials

Capacity	Part No	Size	Description	Packaging
20ML	V20A22ET	27*58mm	20ml Screw Thread Vial, Clear Glass	100PCS/PK
20ML	V20B22ET	27*58mm	20ml Screw Thread Vial, Amber Glass	100PCS/PK
Caps&Septa	SC22WPEET	22mm	White Closed Top PP Cap + 22mm White PE Septa	100PCS/PK

Note: Not only selling caps



◆ 20~60ml Chemical Storage Vials

Capacity	Part No	Size	Description	Packaging
20ML	V20A	27*58mm	20ml Screw Thread Vial, Clear Glass	100PCS/PK
20ML	V20B	27*58mm	20ml Screw Thread Vial, Amber Glass	100PCS/PK
30ML	V30A	27*75mm	30ml Screw Thread Vial, Clear Glass	100PCS/PK
40ML	V40A	27*95mm	40ml Screw Thread Vial, Clear Glass	100PCS/PK
40ML	V40B	27*95mm	40ml Screw Thread Vial, Amber Glass	100PCS/PK
60ML	V60A	27*140mm	60ml Screw Thread Vial, Clear Glass	100PCS/PK
60ML	V60B	27*140mm	60ml Screw Thread Vial, Amber Glass	100PCS/PK
Caps&Septa	SC22A22A	Φ 22*3mm	nature PTFE/nature Silicone septa 22*3mm, 22mm white screw polypropylene cap, 15mm centre hole	100PCS/PK
Caps&Septa	SC22A22B	Φ 22*1.5mm	nature PTFE/nature Silicone septa 22*1.5mm, 22mm black screw polypropylene cap, closed-top	100PCS/PK
Caps&Septa	SC22D22A	Φ 22*1.5mm	nature PTFE/nature Silicone septa 22*1.5mm, 22mm black screw polypropylene cap, closed-top	100PCS/PK
Septa	S22A-I	Φ 22*3mm	nature PTFE/nature Silicone septa	100PCS/PK
Septa	S22A-II	Φ 22*1.5mm	nature PTFE/nature Silicone septa	100PCS/PK

❖ Certificate of Conformity



CERTIFICATE OF CONFORMITY

We hereby certify that the neutral glass tubing of FIOLAX[®] (= Glass 8412/8414) with or without identification line, has been produced by consistently using a Quality Assurance System according to ISO 9001 as well as in accordance with our Technical Terms of Supply for Special Glass Tubing for the Manufacture of Pharmaceutical Containers.

The alkali release measured as per the powdered glass test specified for type I glass according to US Pharmacopoeia 23, ranges within the following values:

FIOLAX[®] clear : 0.30 ± 0.05 ml 0.02 N H₂SO₄ / 10 g glass
 FIOLAX[®] amber : 0.35 ± 0.05 ml 0.02 N H₂SO₄ / 10 g glass

With an upper limit for the first hydrolytic class (comparable: water resistance class 1 resp. HGB 1 according to ISO 719) of

1.0 ml 0.02 N H₂SO₄ / 10 g glass

Our borosilicate glass tubing of FIOLAX[®] clear and amber therefore corresponds to the requirements of the US Pharmacopoeia, Revision 23, for type I glass as well as to the stipulations of all other known pharmacopoeia (e. g. Ph. Eur. Current edition, Ph. Jap. 13, DAB 1996). Various tests on containers made from FIOLAX[®] tubing have shown that the chloride and arsenic release are well below the limit values.

Our composition of FIOLAX[®] amber fulfils the requirements for guaranteeing Protection against light, e. g. acc. to Ph. Eur., DAB 10 and USP 23 (valid from 01.01.1995) for containers with wall thicknesses according to ISO 9187 and ISO 8362 resp. and after correct thermal treatment of the glass tubing, with exception of ampoules > 20 ml.

The heavy metal contents, e. g. lead, cadmium, mercury and hexavalent chromium of both our FIOLAX tubing and our packing are considerably below the limit values of the US and EC regulations (article 11 of stipulations 94/62/CE).

C.BIOCHEMICAL CONSUMABLES



■ 15ml Centrifuge Tubes



- ◆ These conical-bottom tubes are made of ultra-clear polypropylene
- ◆ Clear graduations with large white marking strip for labeling
- ◆ Leakproof
- ◆ Sterility : EO



❖ Specifications

Bottom Graduation Range	0.1 ~ 1 mL
Bottom Graduation Interval	0.1 mL
Graduation Range	1.5 ~ 14.5 mL
Graduation Interval	0.5 mL
Freezable	-20°C
Maximum RCF	13,000xg

❖ Ordering Information

Part No	FT-tube15-EO
Packaging	500PCS / PACK



► Cap Materials : HDPE

■ 50ml Centrifuge Tubes



- ◆ These conical-bottom tubes are made of ultra-clear polypropylene
- ◆ Clear graduations with large white marking strip for labeling
- ◆ Cap Materials : HDPE
- ◆ Leakproof
- ◆ Sterility : Gamma

❖ Specifications

Graduation Range	5 ~ 47.5 mL
Graduation Interval	2.5 mL
Autoclavable	121°C
Freezable	-45°C
Maximum RCF	9,500xg

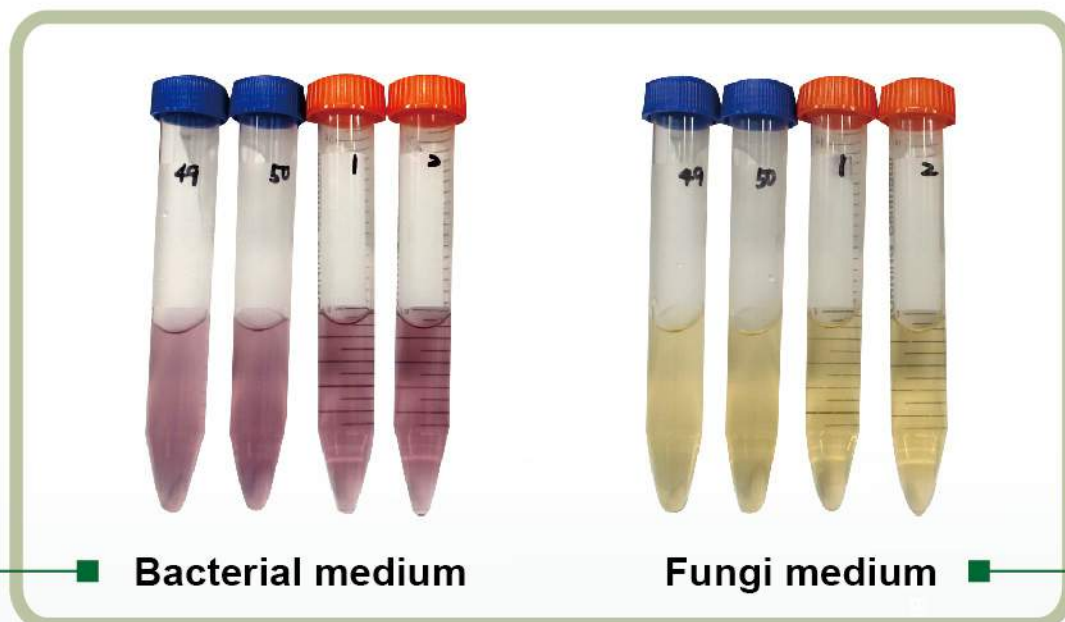
❖ Ordering Information

Part No	FT-tube50-EO
Packaging	500PCS / PACK



► Cap Materials : HDPE

■ Sterility Tests



Finetech Brand (The Blue Caps)		Other Brands (The Orange Caps)	
Amount of Inspection	Amount of Pollutant	Amount of Inspection	Amount of Pollutant
50	0	13	0
50	0	12	0

✂ The medium response clear and sterile, therefore, the test result meets the requirements for sterility standard.

■ Centrifugal test

FINETECH's centrifuge tube pass air leakage test and can stand for 13000xg at 4°C and 25°C.



■ Rubber Stopper

Finetech Rubber Stopper has turnover flange molded to grip outside of container neck promoting a double seal in conjunction with annular serrations on hollow plug. Annular serrations depress themselves against the inside wall of the bottle neck, making each serration a suction sealing point.

Finetech Rubber Stopper is ideal for air and moisture-sensitive chemistry procedures. After piercing with non-coring needle, rubber closes puncture, providing air and moisture tight seal to protect contents of vessel or container from atmosphere.



❖ Specifications

Fits neck I.D.	Use for joints
9.5mm	10/30
14mm	14/20
19mm	19/22
22mm	24/40
27mm	29/42
Material	White Stopper
Package	100pcs/pack

❖ Our Advantages

- Stoppers fit tightly to prevent chemical leaks
- Exhibit very low gas transmission properties
- Strict Quality-Control team to make sure product quality from testing raw material, semi-product to final product
- ISO9001 & ISO13485 certificates
- Good after-sale service to make you satisfaction

PTFE TUBE is made to thick wall with virgin powder for machine parts and others like packings, Gaskets, valve seats, self-lubricating bearings, piston rings etc.

Hose, tube made from PTFE powder has the performance as wide service temperature range, high chemical resistance, high insulation, non-stick, low friction and long life.

Insulated pipe for wire casing, pipe for corrosive fluids, electric insulated parts used in high frequent conditions.



- ◆ Minimal Water Absorption
- ◆ Excellent Machining
- ◆ Acid and chemical resistant
- ◆ Good Electrical insulation

❖ Specifications

OD x ID (mm)	Weight (g)	Burst pressure (kg/cm ²)	Working pressure (kg/cm ²)	OD x ID (mm)	Weight (g)	Burst pressure (kg/cm ²)	Working pressure (kg/cm ²)
4 x 2	22	127	42	12 x 10	80	35	12
5 x 3	29	95	32	12.7 x 10.5	100	35	12
6 x 4	37	76	25	13 x 11	87	32	11
6.35 x 4.57	35	48	16	14 x 12	95	29	10
8 x 5	54	74	25	15 x 13	102	27	9
8 x 6	51	54	18	16 x 14	109	25	8
9.5 x 7.5	70	45	15	18 x 16	111	23	8
10 x 8	66	42	14	22 x 19	223	28	9

❖ Applications

Automotive - the ability of PTFE to withstand temperatures in excess of 250°C makes it an ideal candidate for high temperature fluid transfer.

Medical - PTFE tubing is in huge demand due to its lubricity and chemical inertness. Catheters employing PTFE tubing can be inserted into the human body without fear of reaction or abrasion with any body parts.

Chemical & laboratories - PTFE is an ideal replacement for glass due to its inertness and durability.

Electrical - the excellent dielectric properties of virgin PTFE make it well suited for insulating high voltage cables.

Transfer Pipets

- ◆ Polyethylene pipettes will not shatter or break
- ◆ Good alternative to pasture pipettes and runner bulbs
- ◆ Perfect products for quick, safe transfer of fluid
- ◆ Uniform drop size
- ◆ Long flexible stem can be bent to draw liquid from narrow or small volume tubes into the bulb
- ◆ Available with gamma irradiation sterilized or non-sterilized
- ◆ Integral, self-contained pipettes eliminate the problems of attaching rubber bulbs and suction devices or non-sterilized
- ◆ Integral, self-contained pipettes eliminate the problems of attaching rubber bulbs and suction devices or changing pipette tips
- ◆ Good thickness distribution guarantees suction force



Specifications

Graduated To	Length (mm)	Sterile	Packing
1 ml	104	No	250/PACK
2.3 ml	225	No	250/PACK
3ml	153	No	250/PACK
3.1 ml	150	No	250/PACK
3.3 ml	144	No	250/PACK
4.6 ml	150	No	250/PACK
5 ml	216	No	250/PACK
7.1 ml	300	No	250/PACK





D. LIFE SCIENCE LABORATORY PLASTIC PRODUCTS

Promise to Quality

Finetech's advanced manufacturing process continually monitors the quality of products and individual batch testing ensures Finetech products are certified RNase, DNase, Human DNA and Endotoxin-free.

ITEM	DESCRIPTION
Material	The plastic resin in Finetech's products is certified in compliance with US Pharmacopoeia Plastic Class VI. Compliance with EU RoHS 2002/95/EC, REACH directive does not contain heavy metals and prohibited substances.
Nuclease	Finetech products are tested and certified to be free of detectable nucleases, with a test sensitivity level of less than 5×10^{-10} Kunitz units of RNase and 4×10^{-6} Kunitz units of DNase.
PCR inhibitor	Finetech products contain non-detectable levels of PCR inhibitors based on testing with human template.
Endotoxins/Pyrogens	Finetech products are tested and certified to be free of detectable endotoxins, with a test sensitivity level of less than 0.004EU/ml of endotoxins.
Sterility	Finetech pre-sterile products are gamma radiation and regularly tested to meet SAL 10^{-6} level.
Human DNA	Finetech products are tested and certified to be free of detectable human DNA, with a test sensitivity level of less than 5pg/ul of human DNA.
ATP	Finetech products are tested and certified to be free of detectable ATP, with a test sensitivity level of less than 10^{-13} mg/ul of ATP.
Evaporation Test	Finetech PCR&qPCR products are tested and certified the evaporation volume below 5% (Add 20ul water in tubes and put in 95 °C for 2 hours without hot lid)



Contaminants tested	Testing detection levels
RNase	$< 5 \times 10^{10}$ Kunitz units/ μ l
DNase	$< 4 \times 10^{-6}$ Kunitz units/ μ l
DNA	< 5 pg/ μ l
Pyrogens	< 0.004 EU/ml

a b c



a: product samples
b: negative control
c: positive control

❖ RNase tested by the following protocol :

Products were rinsed in nuclease free water, then product extract were exposed to a RNA standard in a fixed volume of buffer. The RNA standard was incubated at 37 °C for 1 hour, then heated to 55 °C for 1 hour. RNA sample were then run on an agarose gel, photographed and evaluated for degradation.

a b c

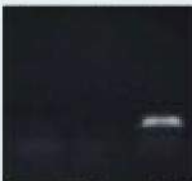


a: product samples
b: negative control
c: positive control

❖ DNase tested by the following protocol :

Products were rinsed in nuclease free water, then product extract were exposed to a DNA standard in a fixed volume of buffer. The DNA standard was incubated at 37 °C for 1 hour. DNA sample were then run on an agarose gel, photographed , and evaluated for degradation.

a b c



a: product samples
b: negative control
c: positive control

❖ DNA tested by the following protocol :

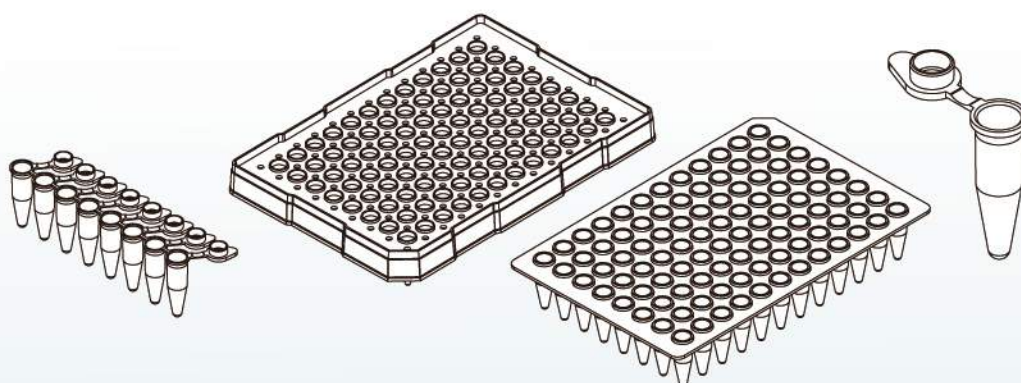
Products were rinsed in nuclease free water, then product extract were exposed to PCR reaction reagents containing primer for human DNA. The reaction was allowed to proceed for 35 cycles. Products were evaluated for detectable human DNA via PCR amplification.

❖ Pyrogens tested by the following protocol :





Our LAL test according to USP33 <85>, <161>, and the guideline provided by FDA of the United States. The result showed that endotoxin concentration of Finetech's products were lower than 0.004 EU/ml.

D1. PCR Single & 8-Strip Tubes

- ◆ Thin Walled tube for best heat transfer
- ◆ Made of USP VI Polypropylene
- ◆ Free of DNase, RNase, DNA, PCR Inhibitor, ATP, Endotoxin. All products are ready to use in PCR
- ◆ Autoclavable
- ◆ Evaporation rate below 5%, no mineral oil needed
- ◆ Fit almost all thermal cycler
- ◆ Small package can avoid contamination by different researcher
- ◆ All items contain tubes and caps



❖ Specifications

Item Picture	Part No	Description	Features / Functions
	FT-P02	0.2ml PCR Tubes with Flat Cap	1. Easy labelling on frosted flat cap
	FT-P08-A	0.2ml PCR 8-Strip Tube with Attached Flat Cap	1. Easy labelling on frosted flat cap 2. Attached cap help avoid cross-tube contamination. 3. Good for storage
	FT-P08-B	0.2ml PCR 8-Strip Tube & Separate Flat Cap	1. Easy labelling on frosted flat cap 2. Traditional separate cap decrease operating time
	FT-P08-D	0.2ml PCR 8-Strip Tube & Separate Domed Cap	1. Dome cap could fit domed hot lid thermal cycler 2. Traditional separate cap decrease operation time

❖ Small Package (avoid contamination)



0.2 ml PCR Tubes
with Flat Cap



0.2ml PCR
8-Strip
Tubes with Attached Cap

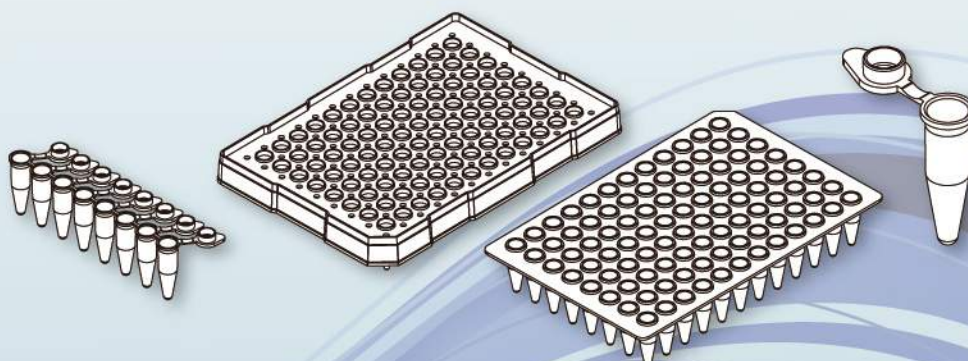


0.2 ml PCR
8-Strip Tubes
with Separate Strip Caps



❖ Ordering Information

Part No	Description	Bag Pack	Box Pack
FT-P02	0.2ml PCR Tubes with Flat Cap	500 Tubes	6 Bags (3000 Tubes)
FT-P08-A	0.2ml PCR 8-Strip Tube with Attached Flat Cap	12 8-Strip Tubes	10 Bags (120 Strips)
FT-P08-B	0.2ml PCR 8-Strip Tube & Separate Flat Cap	12 8-Strip Tubes 120 8-Strip Caps	10 Bags Tubes 1 Bag Caps (120 Strips)
FT-P08-D	0.2ml PCR 8-Strip Tube & Separate Domed Cap	12 8-Strip Tubes 120 8-Strip Caps	10 Bags Tubes 1 Bag Caps (120 Strips)



D2. qPCR 8-Strip Tubes

- ◆ Thin Walled tube for best heat transfer
- ◆ Made of USP VI Polypropylene
- ◆ Free of DNase, RNase, DNA, PCR Inhibitor, ATP, Endotoxin. All products are ready to use in PCR
- ◆ Evaporation rate below 5%, saving cost on reagents
- ◆ Two kind of 8-Strip could fit almost Real-Time PCR machine
- ◆ Small package can avoid contamination by different researcher
- ◆ Ultra clear cap show consistant light transmitting rate provid stable date than others
- ◆ All items contain tubes and caps

❖ Difference of Profile (Height of Tube)







0.1ml Low Profile

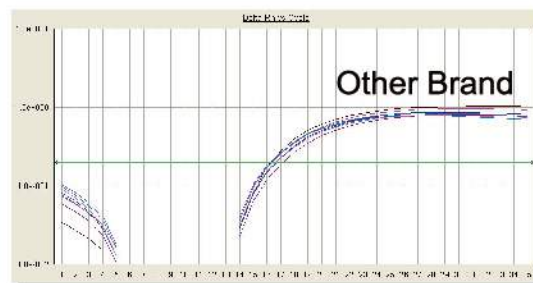
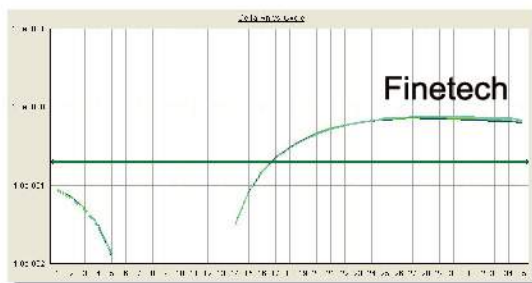


0.2ml Standard Profile

❖ Specifications

Item Picture	Part No	Description	Features / Functions
	FT-Q100	0.1ml qPCR 8-Strip Tubes (With Optical Caps)	<ol style="list-style-type: none"> 1. Low profile tube could fit most new qPCR machine 2. Tube height 16 mm 3. Frosted tubes
	FT-Q100W	0.1ml qPCR 8-Strip White Tubes (With Optical Caps)	<ol style="list-style-type: none"> 1. Low profile tube could fit most new qPCR machine 2. Tube height 16 mm 3. White tubes
	FT-A200	0.2ml qPCR 8-Strip Tubes (With Optical Caps)	<ol style="list-style-type: none"> 1. Standard Profile tube could fit old qPCR machine and some new machine 2. Tube height 21 mm 3. Clear tubes
	FT-Q200W	0.2ml qPCR 8-Strip White Tubes (With Optical Caps)	<ol style="list-style-type: none"> 1. Standard Profile tube could fit old qPCR machine and some new machine 2. Tube height 21 mm 3. White tubes

❖ Finetech's qPCR strip's performance



The same 8 wells mechanism repeat between Finetech qPCR optical caps and other brand optical caps, the data show stable overlap of 8 lines in Finetech and unstable 8 lines in other brand.

❖ Ordering Information

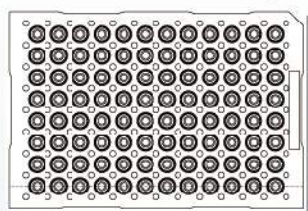
Part No	Description	Bag Pack	Box Pack
MB-Q100	0.1ml qPCR 8-Strip Tubes (With Optical Caps)	12 8-Strip Tubes 12 8-Strip Caps	10 Bags Each (120 Strips)
MB-Q100W	0.1ml qPCR 8-Strip White Tubes (With Optical Caps)	12 8-Strip Tubes 12 8-Strip Caps	10 Bags Each (120 Strips)
MB-Q200	0.2ml qPCR 8-Strip Tubes (With Optical Caps)	12 8-Strip Tubes 12 8-Strip Caps	10 Bags Each (120 Strips)
MB-Q200W	0.2ml qPCR 8-Strip White Tubes (With Optical Caps)	12 8-Strip Tubes 12 8-Strip Caps	10 Bags Each (120 Strips)

D3. PCR & qPCR Plates

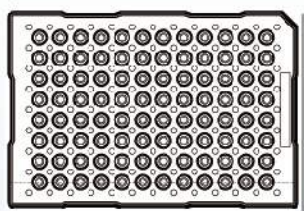
- ◆ Thin Walled tube for best heat transfer
- ◆ Made of USP VI Polypropylene
- ◆ Free of DNase, RNase, DNA, PCR Inhibitor, ATP, Endotoxin. All products are ready to use in qPCR
- ◆ Evaporation rate below 5%, saving cost on reagents
- ◆ Two kind of plate could fit almost Real-Time PCR machine
- ◆ Small package can avoid contamination by different researcher

❖ Skirted Format

• Standard Profile (21mm)

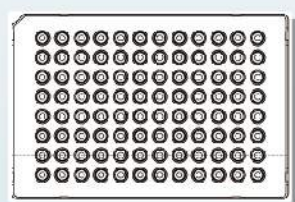


✓ **FT-P96**
Non-Skirted

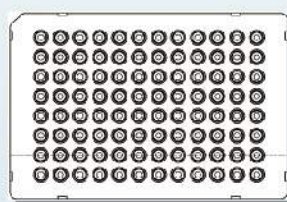


✓ **FT-Q96**
Sub-Semi Skirted

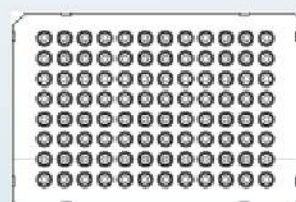
• Low Profile (16mm)



✓ **FT-Q96-LP**
Sub-Semi Skirted








✓ **FT-Q96-LBR**
Semi Skirted



✓ **FT-Q96-LBR-W**
White Semi Skirted
(Roche/BioRad)

❖ Specifications

Item Picture	Part No	Description	Features / Functions
	FT-P96	0.2ml Standard Profile PCR 96 Well Plate (non-skirt)	<ol style="list-style-type: none"> 1. Non-Skirted 2. Standard Profile : Tube height 21 mm 3. Clear Tubes
	FT-Q96	0.2ml Standard Profile qPCR 96 Well Plate (sub-semi skirted)	<ol style="list-style-type: none"> 1. Sub-Semi Skirted 2. Standard Profile : Tube height 21 mm 3. Clear Tubes
	FT-Q96-LP	0.1ml Low Profile qPCR 96 Well Plate (sub-semi skirted)	<ol style="list-style-type: none"> 1. Sub-Semi Skirted 2. Low Profile : Tube height 16 mm 3. Frosted Tubes
	FT-Q96-LBR	0.1ml Low Profile qPCR 96 well Plate (semi skirted)	<ol style="list-style-type: none"> 1. Semi Skirted 2. Low Profile : Tube height 16 mm 3. Frosted Tubes
	FT-Q96-LBR-W	0.1ml Low Profile qPCR 96 well White Plate (semi skirted)	<ol style="list-style-type: none"> 1. Semi Skirted 2. Low Profile : Tube height 16 mm 3. White Tubes





❖ Ordering Information

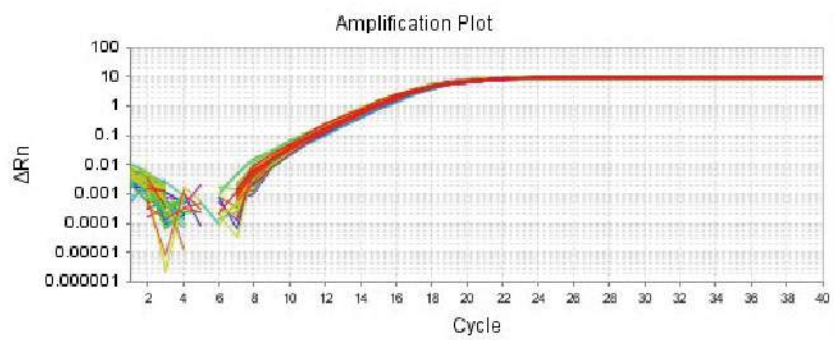
Part No	Description	Bag Pack	Box Pack
FT-P96	0.2ml Standard Profile PCR 96 Well Plate (non-skirt)	10 Plates	5 Bags (50 Plates)
FT-Q96	0.2ml Standard Profile qPCR 96 Well Plate (sub-semi skirted)	10 Plates	5 Bags (50 Plates)
FT-Q96-LP	0.1ml Low Profile qPCR 96 Well Plate (sub-semi skirted)	10 Plates	5 Bags (50 Plates)
FT-Q96-LBR	0.1ml Low Profile qPCR 96 well Plate (semi skirted)	10 Plates	5 Bags (50 Plates)
FT-Q96-LBR-W	0.1ml Low Profile qPCR 96 well White Plate (semi skirted)	10 Plates	5 Bags (50 Plates)

D4. Seals

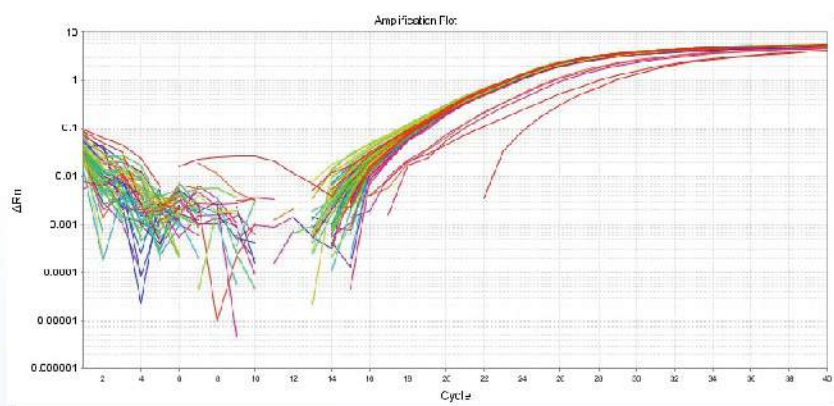
- ◆ Free of DNase, RNase, DNA, PCR Inhibitor, ATP, Endotoxin. All products are ready to use in qPCR
- ◆ Evaporation rate below 5%, saving cost on reagents
- ◆ Small package can avoid contamination by different researcher

❖ Specifications

Item Picture	Part No	Description	Features / Functions
	FT-PSM	PCR 96 Well Plate Sealing Membrane	<ol style="list-style-type: none"> 1. Operating Temperature - 40 ~ 120 °C 2. PCR use 3. Strong adhesive
	FT-QSM	qPCR 96 Well Plate Optical Sealing Membrane (pressure-sensitive adhesive film)	<ol style="list-style-type: none"> 1. Operating Temperature - 40 ~ 120 °C 2. Real-Time PCR(qPCR) use 3. Strong pressure sensitive adhesive 4. Ultra clear membrane show consistant and high light transmitting rate provid stable date than others
	FT-ASM	Aluminum Membrane	<ol style="list-style-type: none"> 1. Operating Temperature -80 ~ 120 °C 2. PCR or Storage use 3. Strong adhesive 4. MB-ASM is piercable
	FT-ESM	Storage Membrane (for Elisa/EIA)	<ol style="list-style-type: none"> 1. Operating Temperature - 40 ~ 80 °C 2. Elisa / EIA or Storage use



► Finetech MB-QSM



► Other brand optical film

The same 96 wells mechanism repeat between Finetech MB-QSM and other brand optical film, the data show stable overlap of 96 lines in Finetech and unstable 96 lines in other brand.

❖ Ordering Information

Part No	Description	Bag Pack	Box Pack
FT-PSM	PCR 96 Well Plate Sealing Membrane	10 Membranes	10 Bags (100 Membranes)
FT-QSM	qPCR 96 Well Plate Optical Sealing Membrane (pressure-sensitive adhesive film)	10 Membranes	10 Bags (100 Membranes)
FT-ASM	Aluminum Membrane	10 Membranes	10 Bags (100 Membranes)
FT-ESM	Storage Membrane (for Elisa / EIA)	10 Membranes	10 Bags (100 Membranes)



Made in Taiwan

- HPLC chromatography and biochemical consumables
- ISO 9001 & ISO13485 Certificates



Centrifuge Tube
25 PCS/PACK



Centrifuge Tube
Single PACK



PCR Single Tubes



PCR & qPCR Plates



PCR & qPCR 8-Strip Tubes

Business Items

- Syringe filters
- Air Filters
- Membrane filters
- Glass fiber filters
- Vials 、 Septa 、 Caps
- Biochemical consumables

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■ Taichung

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No.72, Wenshan 9th St., Nantun Dist., Taichung City 408

■ Changhua

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