Finetech
http://www.finetech-filter.com

FINETECH RESEARCH & INNOVATION CORP.

Syringe Filters

Air Vent Filters

Sterile Syringe Filters

Glass Fiber Filter

Vials/Septa/Caps

Disc Membrane Filter

Vacuum Pump Filtration system

Rubber Stopper

Centrifuge Tubes

Factory registration number 07-000299

ISO-9001&ISO-13485 Certificates

VISIT US

en.finetech-filter.com

Company profile

Finetech research and innovation Corporation has engaged in medical field and Laboratory Consumables 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 Finetech Research and Innovation Corporation was established.

2005
- Finetech has been engaging with the field of gas filtration and Dialysis.
- Receiving the medical device award from Taiwan Government.

2008 Developing Transducer Protector which could be sterilized by autoclave.

2010
- More than 2,000,000 pcs TPS/month were sold to many countries, such as India, Japan and so on.
- 1st syringe filter manufactured in clean room Taiwan.


DNV·GL

MANAGEMENT SYSTEM CERTIFICATE

Finetech Research and Innovation Corp.

ISO 13485:2003

Design, Manufacture, Sales and Trading of Transducer Protector, Recirculation Connector and Female Luer Lock Cap for Medical Use.


SGS

FINETECH Research and Innovation Corp.

ISO 9001:2008


中華民國專利證書


中華民國專利證書

Distributors

2008 2010 2012 2013 2014 2015 2016 2017

2012
- Finetech got the certificate of ISO9001 and ISO13485.
- Getting award of biotechnical development plan - The 1 50mm Air filter and various types of syringe filters were manufactured in Taiwan.

2013
- More than 100,000pcs SFS/month were manufactured and sold to many countries, such as Korea, Japan, UK and so on.
- Gatting award of Conventional Industry Technology Development (CITD) by Ministry of Economic Affairs.

2014 Gatting award of Small Business Innovation Research (SBIR) Development of sterile syringe filters, which is used for biomedical.

2015 Gatting award of Conventional Industry Technology Development (CITD) Development of medical grade septa.

2016 Gatting award of Small Business Innovation Research (SBIR) Development of Sterile Disposable Bottle Top Filters, which be used for Biological Technology area.

2017 Applying the CE Certificate for Transducer protector. Desining and innovating new products for medical and laboratory using.

Contents

Filtration Products

Sample Vials/Container

other Supplies

1. FILTRATION PRODUCTS

Syringe Filter

1-1 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 formats 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

◆ 4mm Syringe Filter

❖Product

- ► New Style Patent Number NO.D146280
- ► Good chemical compatibility
- ► New patent number NO.M 417540
- ► diversification filter selection
- ► ISO9001 & 13485 international certification
- ► Customizable
- ► Low residual volume

◆ 13mm Syringe Filter

❖Product

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

Syringe Filter

Finetech
http://www.finetech-filter.com

◆25mm Syringe Filter

❖Product

- ▶Housing Material: Medical Polypropylene
- ▶Filtration area: 3.9 cm²
- ▶Process Volume: 100 mL
- ▶Hold-up volume: <100ul
- ▶Maximun Inlet
- ▶Pressure Bar(PSI): 5.2bar (75 psi)
- ▶Highest Temp. : 45°C
- ▶25 mm with pore size and type of various membrane
- ▶ Low adsorption of analytics
- ▶Maximum chemical compatibility
- ▶Certified quality

❖ Specifications

Shell material	medical grade polypropylene
Diameter	4mm.13mm.25mm
Pore size	0.1, 0.2, 0.45, 1.0, 3.0, 5.0 μm
Membrane material	hydrophilic PTFE, hydrophobic PTFE, PVDF, Nylon, CA, MCE, PES, PP, RC
Filtration area	0.125cm²
Processing sample volume	2 ml
Residual volume	<10 ul

⑤

❖Applications

- Filtration of Aqu eous, 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	Membrane characteristics
PVDF PTFE Nylon MCE CA	013=13mm 030=25mm	N(non-sterile) S(EO) G(Gamma)	020=0.20 um 022=0.22 um 045=0.45 um 100=1.0 um	I = hydrophilic O = hydrophobic

For example : PTFE013N045I → 13mm Syring Filter, Hydrophilic PTFE, 0.45um
① ② ③ ④ ⑤

Ps. There are 0.05um, 0.1um, 0.22um, 0.45um, 1.0um, 3.0um, 5.0um, 10.0um for Hydrophobic PTFE

1-2 MeTech™ - Syringe Filter

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

The new design patent NO. D 146280
The new patent NO. M 417540
Certified quality
Maximum chemical compatibility

Low adsorption of analytics
High flow rate and low hold-up volume
Edge with screws make operator easier to use
Easier to distinguish different membrane material

◆4mm Syringe Filter

❖ Product

►Hydrophilic PVDF membrane, for non-sterile filtration,
►has a 0.22 μm pore size used in fine particle removal from aqueous
► mild organic solutions.

❖ Specifications

Product Size	Maximum outside diameter: 7.55mm
Pore size	0.22μm
Diameter	4mm
Application	Biological / immunized samples, cell culture components, biological fluids, most other aqueous solutions and reagents (Including EIA and ELISA samples) for sterilization and clarification
Characteristics	Hydrophilic
Filter material	(PP)
Filter	(Nylon) (PVDF) (PTFE)
Pack	100pcs/pk

◆13mm Syringe Filter

❖ Product

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

Syringe Filter

◆25mm Syringe Filter

❖ Product

- ▶Housing material: Medical Polypropylene
- ▶Filtration ares : 3.9cm²
- ▶Process Volume：100 mL
- ▶Hold-up volume : <100 ul
- ▶Pressure Bar (PSI) : 5.2(75)
- ▶Highest Temp. : 45 °C

❖ Specifications

Diameter	13mm、25mm
Pore size	0.1μm, 0.2μm, 0.45 μm
Membrane material	hydrophilic PTFE, hydrophobic PTFE, PVDF, Nylon, CA, MCE, PES, PP, RC
Packing	Non-sterile, 100pcs/pk

❖ 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	017=13mm 025=25mm 033=33mm	N(non-sterile) S(EO) G(Gamma)	020=0.20 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 : PTFE017N045I → 13mm Syring Filter, Hydrophilic PTFE, 0.45um, Color-coding
① ② ③ ④ ⑤

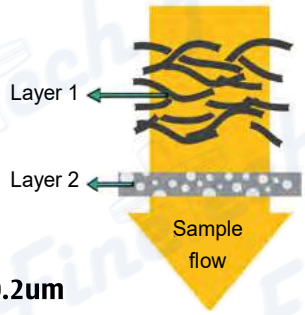
1-3 DualTech™ - Syringe Filter

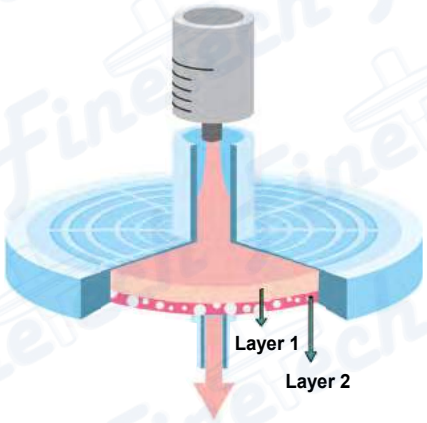
Syringe filter is more retentive than standard 30mm devices and available with single-layer membranes or with multi-layer prefilters.

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

Layer 1
Glass prefilter (GF)
down to 1 um

Layer 2
Membrane filter
Nylon, PVDF, PTFE, etc.
Filters down to 0.45um or 0.2um





❖Ordering Information

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

For example : PTFEG030N022O → 25mm, PTFE+GF, 0.22um
① ② ③ ④ ⑤

1-4 StarTech™ - Syringe Filter

"Finetech" pre-sterilized syringe filters are available in pore size of 0.2um, 0.45um and various membranes to suit different applications for filtration in the laboratory.

- Increases flow rate and throughput
- Low hold-up volume (less than 25µL or 100µL)
- Lowest extractables
- Sterile individual blister bubble pack

◆13mm Syringe Filter

◆33mm Syringe Filter

❖Applications

- HPLC
- Biological fluids
- Buffer solutions
- Sterile filtering of tissue culture media
- Proteinaceous solutions

❖Ordering Information

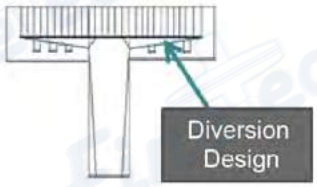
① Membrane	② Diameter	③ Sterile	④ Pore size	⑤ Membrane characteristics
PVDF PTFE Nylon MCE CA PES	017=13mm 033=33mm	N(non-sterile) S(EO/Gamma)	022=0.22 um 045=0.45 um	I = hydrophilic O = hydrophobic

For example : PVDF033S022I → 33mm, PVDF membrane, sterile, 0.22um
① ② ③ ④ ⑤

Syringe Filter

◆Syringe Filter Patent

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



中華民國專利證書

新型第 M 417540 號

新型名稱：針頭過濾器

專利權人：李國鈺

創作人：李國鈺

專利權期間：自2011年12月1日至2021年7月7日止

上開新型業依專利法規定通過形式審查取得專利權
行使專利權依法應提示新型專利技術報告進行警告

經濟部智慧財產局

局長王美花

中華民國 100 年 12 月 1 日

◆Certificate of Analysis

FINETECH RESEARCH AND INNOVATION CORP.

Certificate of Analysis

Disposable Syringe Filters

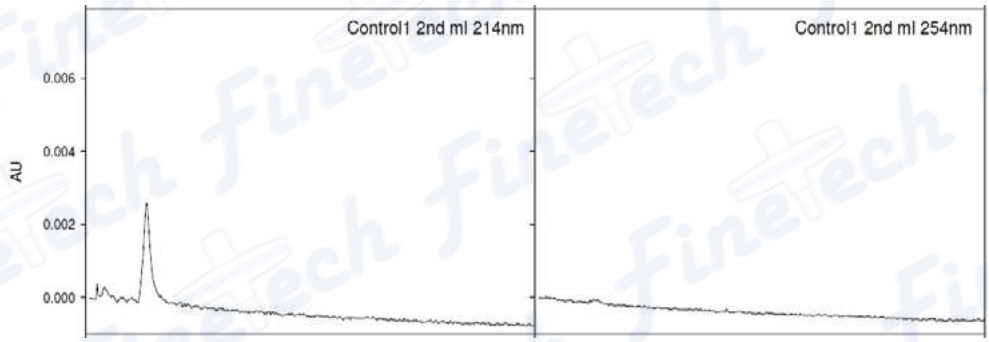
Product Itemø dPVDF025S022I Pageø d/1

Lot No.ø dA1111101111I D ate ø d2012/01/11

Inspectorø dH.L.,Su

Samplingø dSamples pulled at defined intervals throughout the lot, 10 units per lot

Test S	pecification	Results
Bubble point test	>1.5bar C	onform
Hold-up volume <	100ul C	onform
HPLC Extractables <	0.004 Absorbance units C	onform
Dimensional Conformity of Luer Fittings	Withstands gauge tolerances in accordance with ISO594-1	Conform
Housing Burst Test B	urst pressure of ≥150psi	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 s hould therefore not be c onstructed a s guaranteeing s pecific properties o f the products described or t heir s uitability f or a particular application. Any existing industrial property rights must be observed. The quality of our products guaranteed under our General Condition of Sale.

◆Syringe Filter Patent

- Without Phthalates Test by SGS.
  Including BBP, DEHP, DIDP, DINP, DNOP, DBP TEST. (SGS Certificate)

SGS

測試報告
Test Report

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

鈦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.
鄰苯二甲酸丁苯甲酯 / 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.)

SGS Taiwan Ltd. 台灣檢驗科技股份有限公司 | 25, Wu Chyuan 7th Road, New Taipei Industrial Park, Wu Ku District, New Taipei City, Taiwan /新北市五股區新北產業園區五權七路25號
t+886 (02)2299 3939 f+886 (02)2299 3237 www.sgs.tw

Member of the SGS Group

2-1 50mm Vacuum Pump Filters

1. PASS HEPA TEST
2. ¼" Hosebarb x ¼" Hosebarb
3. High flow rates at low differential pressures
4. Rugged PC housing withstands high temperatures, pressures and aggressive solvents
5. High particulate-loading capability to maintain flow rates over extended periods
6. Manufactured in clean room under controlled Conditions
7. Autoclave
8. Accept ID 7-13 mm tubing
9. It is specially fit for aseptic ventilation of small size fermentor and culture mdium tank.

HPEA level, 0.3um particle filtration rating of more than 99.99%
Applicable diameter 7-13mm tube, exclusive PC housing can be steam sterilization use
Enclosure meets the USP Class 6 test

◆50mm Vacuum Pump Filters

❖Product

►Specifications : 50mm
►Model : PTFE050N020O-PC (type3)
►Filter : PTFE
►Material : PC
►Flow direction : single direction
►Pore Size : 0.2um
►Sterilization method : E.O sterilization
►Packing : 12pcs / bag

❖Applications

- Autoclave Filters
- Vacuum Pump Filters
- Pipette Controller Filters
- Ink-Jet Filters
- Gas Analyser Filters
- CO^2 Incubator Filters
- small fermentation tank air filtration
- Online air filter
- single flow (master)
- PC level
- suction pump front-end buffer device
- material feeding bottle

2-2 Autoclave Filters

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 formats in virgin medical polypropylene housing.

HPEA level, 0.3um particle filtration rating of more than 99.99%
Enclosure meets the USP Class 6 test

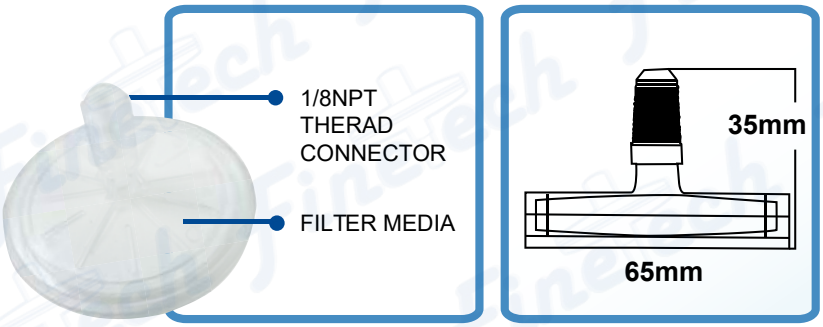
◆50mm Autoclave Filter

❖Product

- ▶Specifications : 50mm
- ▶Model : PTFE050N022O-PC(type2)
- ▶Filter : PTFE
- ▶Size : W60mm H34.5mm
- ▶Material : PC
- ▶Flow direction : single direction
- ▶Pore Size : 0.2um
- ▶Sterilization method : E.O sterilization
- ▶Packing : 12pcs / bag

❖Applications

- Autoclave Filters
- Vacuum Pump Filters
- Pipette Controller Filters
- Ink-Jet Filters
- Gas Analyser Filters
- CO^2 Incubator Filters
- small fermentation tank air filtration
- Online air filter
- single flow (master)
- PC level
- suction pump front-end buffer device
- material feeding bottle



2-3 CO2 Incubator Filters

1. PASS HEPA TEST
2. 1/8" Male NPT x ¼" Hosebarb
3. High flow rates at low differential pressures
4. Rugged PC housing withstands high temperatures, pressures and aggressive solvents
5. High particulate-loading capability to maintain flow rates over extended periods
6. Manufactured in clean room under controlled Conditions
7. Autoclave
8. Accept ID 7-13 mm tubing
9. It is specially fit for aseptic ventilation of small size fermentor and culture mdium tank.

HPEA level, 0.3um particle filtration rating of more than 99.99%
Applicable diameter 7-13mm tube, exclusive
PC housing can be steam sterilization use
Enclosure meets the USP Class 6 test

◆50mm CO2 Incubator Filters

❖Product

▶Specifications : 50mm
▶Model : PTFE050N022O- (type3)
▶Filter : PTFE
▶Material : PC
▶Flow direction : single directions
▶Pore Size: 0.2um
▶Sterilization method : E.O sterilization
▶Packing : 12pcs / bag

❖Applications

- Autoclave Filters
- Vacuum Pump Filters
- Pipette Controller Filters
- Ink-Jet Filters
- Gas Analyser Filters
- CO^2 Incubator Filters
- small fermentation tank air filtration
- Online air filter
- single flow (master)
- PC level
- suction pump front-end buffer device
- material feeding bottle

2-4 Air Vent Filter

❖ Product

- ▶Specifications : 50mm
- ▶Model : PTFE050N022O-PC(Type4)
- ▶Filter : PTFE
- ▶Flow direction : single directions
- ▶Material : PC
- ▶Pore Size : 0.2um
- ▶Sterilization method : E.O sterilization
- ▶Packing : 12pcs / bag

❖ Applications

- Autoclave Filters
- Vacuum Pump Filters
- Pipette Controller Filters
- Ink-Jet Filters
- Gas Analyser Filters
- CO^2 Incubator Filters
- small fermentation tank air filtration
- Online air filter
- single flow (master)
- PC level
- suction pump front-end buffer device
- material feeding bottle

❖ Specifications

Part No.	▸ *Type1*	▸ *Type2*	▸ *Type3*	▸ *Type4*
Model No.	**PTFE050N022O-PCP**	**TFE050N022O-PCP**	**TFE050N022O-PCP**	**TFE050N022O-PC**
				
Biosafety	Meet the requirements of USP Class VI Biological Test for plastics			
Connection	(Accepted ID7-13mm) Hydrophobic PTFE 50mm 0.22um air filter Inlet: Stepped Hose Barb Outlet: Stepped Hose Barb	Hydrophobic PTFE 50mm 0.22um air filter Inlet:1/8"NPT	(Accepted ID7-13mm) Hydrophobic PTFE 50mm 0.22um air filter Inlet: Stepped Hose Barb Outlet: 1/8" NPT	Hydrophobic PTFE 50mm 0.22um air filter 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			

Air Vent Filter

◆ Syringe Filter Patent

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

正 本 ORIGINAL

日期 Date: 2012.04.02 收件日期 Date of Receipt: 2012.03.27 試驗報告 TEST REPORT

報告編號 Report No.: TFF1C451 數量 Quantity: 1 PC 報告頁次／頁數 Page Order/Pages: (P1/1) 案文字號 Ref. No.: NIL

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

地址 Address: 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 μm 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-fu Chiu

Director, Department of Testing and Certification

Authorized by president of Taiwan Textile Research Institute

附記: 1.本報告僅對樣品負責，樣品保留期限為一個月。
Note: This report is only responsible for the submitted sample(s), which will be kept for one month period.
2.本報告非經本檢測及驗證部書面同意，不得節錄複製，但全部複製除外。
This report cannot be reproduced in any way, except in full context, without the prior approval in writing of this Department of Testing and Certification.
3.試驗報告所載事項不得作為公開廣告及商業推銷之用。
The test report should not be used for public advertisement and commercial promotion.

紡織所檢測及驗證部 新北市土城區承天路六號
Department of Testing and Certification, Taiwan Textile Research Institute
No.6, Chengtian Rd., Tucheng Dist., New Taipei City 23674, Taiwan (R. O. C.)
Tel：+886-2-22670321 ext. 7107, 7110
+886-2-22698229 , +886-2-22698230
Fax：+886-2-22675108 , +886-2-22689839

2-5. Pipette Filters

HPEA level, 0.3um particle filtration rating of more than 99.99%
Applicable diameter 7-13mm tube, exclusive PC housing can be steam sterilization use
Enclosure meets the USP Class 6 test

❖ Product

- ▶Specifications : 27mm
- ▶Model : PTFE027N100O
- ▶Filter : PTFE
- ▶Material : PVC
- ▶Flow direction : single directions
- ▶Application : pediatric ventilator ▶dedicated
- ▶Pore Size : 0.2um
- ▶Sterilization method : E.O sterilization
- ▶Packing : 12pcs / bag

❖ Applications

- Autoclave Filters
- Vacuum Pump Filters
- Pipette Controller Filters
- Ink-Jet Filters
- Gas Analyser Filters
- CO^2 Incubator Filters
- small fermentation tank air filtration
- Online air filter
- single flow (master)
- PC level
- suction pump front-end buffer device
- material feeding bottle

2-6. Ink-Jet Filters

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 formats in virgin medical polypropylene housing.

HPEA level, 0.3um particle filtration rating of more than 99.99%
Applicable diameter 7-13mm tube, exclusive
PC housing can be steam sterilization use
Enclosure meets the USP Class 6 test

❖ Product

►Specifications : 25mm
►Model : FT27G0220
►Filter : PTFE
►Filtration area : 3.9cm²
►Material : medical grade polypropylene
►Processing sample volume : 100 ml
►Residual volume : <100 ul
►Maximum pressure : 5.2 (75)
►Maximum temperature (solvent) : 45 ° C
►Material : PC
►Flow direction : single directions
►Pore Size : 0.2um
►Sterilization method : E.O sterilization
►Packing : 12pcs / bag

❖ Specifications

Shell material	medical grade polypropylene
Diameter	25mm
Pore size	0.1, 0.2, 0.45, 1.0, 3.0, 5.0 μm
Membrane material	hydrophilic PTFE, hydrophobic PTFE, PVDF, Nylon, CA, MCE, PES, PP, RC
Packing	Non-sterile, 100pcs/pk

2-7. Gas Analyser Filters

HPEA level, 0.3um particle filtration rating of more than 99.99%
Applicable diameter 7-13mm tube, exclusive
PC housing can be steam sterilization use
Enclosure meets the USP Class 6 test

❖ Product

- ▶ Specifications : 23mm
- ▶ Model : FT0220
- ▶ Filter : PTFE
- ▶ Material : PVC
- ▶ Flow direction : single directions
- ▶ Pore Size : 0.2um
- ▶ Sterilization method : E.O sterilization
- ▶ Packing : 100pcs/pk

◆Syringe Filter Patent

中 華 民 國 專 利 證 書

新式樣第 D 130528 號

新式樣名稱：連接管

專 利 權 人：李國鈺

創 作 人：李國鈺

專利權期間：自2009年 8 月21日至2020年10月16日止

上開新式樣業經專利權人依專利法之規定取得專利權

經濟部智慧財產局

局 長 王美花

中 華 民 國 98 年 8 月 21 日

Transducer Protector

3-1. Transducer Protector-FT0220

Transducer protectors are used in hemodialysis blood lines to keep the blood side of the circuit separated from the machine side and to prevent contamination of the machine by the blood flowing through the circuit. This contamination could be very dangerous and can lead to patient cross contamination with hepatitis B or other virus

❖Features

1. Hydrophobic membrane with 0.2 micron pore size.
2. Prevents contamination of the internal pressure monitoring lines.
3. Antibacterial hydrophobic air filter with female luer lock/male luer lock
4. Connects blood tubing with dialysis machine.
5. Protective hydrophobic barrier allows only sterile air to pass through, protecting patients and equipment from cross contamination.
6. Prevents blood and dialyzing fluid from damaging sensitive transducer monitoring devices

❖Specifications

Effective Filtration Area	2.5 cm2
Materials of Construction Media	PTFE LAMINATE (hydrophobic membrane)
Inlet/Outlet Connections	Inlet: MLL;Luers conform to ISO594 Outlet: FLL; Luers conform to ISO594
Sterilization Compatibility	E.T.O.
Maximum Operating Temperature	50 °C
Pore Size	0.2 μm
Biological Safety	Materials of construction pass USP Class VI

3-2. Transducer Protector-FT0220

Transducer protectors are used in hemodialysis blood lines to keep the blood side of the circuit separated from the machine side and to prevent contamination of the machine by the blood flowing through the circuit. This contamination could be very dangerous and can lead to patient cross contamination with hepatitis B or other virus

❖Features

1. Hydrophobic membrane with 0.2 micron pore size.
2. Prevents contamination of the internal pressure monitoring lines.
3. Antibacterial hydrophobic air filter with female luer lock/male luer lock
4. Connects blood tubing with dialysis machine.
5. Protective hydrophobic barrier allows only sterile air to pass through, protecting patients and equipment from cross contamination.6. Prevents blood and dialyzing fluid from damaging sensitive transducer monitoring devices

❖Specifications

Effective Filtration Area	2.5 cm2
Materials of Construction Media	PTFE LAMINATE (hydrophobic membrane)
Inlet/Outlet Connections	Inlet: MLL;Luers conform to ISO594 Outlet: FLL,FLS; Luers conform to ISO594
Sterilization Compatibility	E.T.O &STEAM
Maximum Operating Temperature	121°C
Pore Size	0.2 μm
Biological Safety	Materials of construction pass USP Class VI

3-3.Transducer Protector-FTPT0211

Transducer protectors are used in hemodialysis blood lines to keep the blood side of the circuit separated from the machine side and to prevent contamination of the machine by the blood flowing through the circuit. This contamination could be very dangerous and can lead to patient cross contamination with hepatitis B or other virus

❖Features

1. Hydrophobic membrane with 0.2 micron pore size.
2. Prevents contamination of the internal pressure monitoring lines.
3. Antibacterial hydrophobic air filter with female luer lock/male luer lock
4. Connects blood tubing with dialysis machine.
5. Protective hydrophobic barrier allows only sterile air to pass through, protecting patients and equipment from cross contamination.
6. Prevents blood and dialyzing fluid from damaging sensitive transducer monitoring devices

❖Specifications

Effective Filtration Area	2.5 cm2
Materials of Construction Media	PTFE LAMINATE (hydrophobic membrane)
Inlet/Outlet Connections	Inlet: MLL;Luers conform to ISO594 Outlet: FLL,FLS;Luers conform to ISO594
Sterilization Compatibility	Gamma
Pore Size	0.2 µm
Biological Safety	Materials of construction pass USP Class VI

3-4.Transducer Protector-FTPT0211

Transducer protectors are used in hemodialysis blood lines to keep the blood side of the circuit separated from the machine side and to prevent contamination of the machine by the blood flowing through the circuit. This contamination could be very dangerous and can lead to patient cross contamination with hepatitis B or other virus

❖Transducer Protector commissioned SGS test

Approval of biocompatibility test
>Cytotoxicity test (direct contac, indirect contact)
> Heat source test
> Skin allergy test
>Intradermal irritation test
>Toxicity test for Acute systemic
>Hemolysis test (direct contact, indirect contact)

❖Features

1. Hydrophobic membrane with 0.2 micron pore size.
2. Prevents contamination of the internal pressure monitoring lines.
3. Antibacterial hydrophobic air filter with female luer lock/male luer lock
4. Connects blood tubing with dialysis machine.
5. Protective hydrophobic barrier allows only sterile air to pass through, protecting patients and equipment from cross contamination.
6. Prevents blood and dialyzing fluid from damaging sensitive transducer monitoring devices

❖Specifications

Effective Filtration Area	2.5 cm2
Materials of Construction Media	PTFE LAMINATE (hydrophobic membrane)
Inlet/Outlet Connections	Inlet: MLL;Luers conform to ISO594 Outlet: FLL;Luers conform to ISO594
Sterilization Compatibility	E.T.O.
Maximum Operating Temperature	60°C
Pore Size	0.2 μm
Biological Safety	Materials of construction pass USPClass VI

3-5.Transducer Protector-FT0220S

Transducer protectors are used in hemodialysis blood lines to keep the blood side of the circuit separated from the machine side and to prevent contamination of the machine by the blood flowing through the circuit. This contamination could be very dangerous and can lead to patient cross contamination with hepatitis B or other virus

❖Features

1. Hydrophobic membrane with 0.2 micron pore size.
2. Prevents contamination of the internal pressure monitoring lines.
3. Antibacterial hydrophobic air filter with female luer lock/male luer lock
4. Connects blood tubing with dialysis machine.
5. Protective hydrophobic barrier allows only sterile air to pass through, protecting patients and equipment from cross contamination.
6. Prevents blood and dialyzing fluid from damaging sensitive transducer monitoring devices

❖Specifications

Effective Filtration Area	2.5 cm2
Materials of Construction Media	PTFE LAMINATE (hydrophobic membrane)
Inlet/Outlet Connections	Inlet: MLL;Luers conform to ISO594 Oulet: Male Luer Slip
Sterilization Compatibility	E.T.O.
Maximum Operating Temperature	50 °C
Pore Size	0.2 μm
Biological Safety	Materials of construction pass USP Class VI

3-5.Transducer Protector-FT0220SW

Transducer protectors are used in hemodialysis blood lines to keep the blood side of the circuit separated from the machine side and to prevent contamination of the machine by the blood flowing through the circuit. This contamination could be very dangerous and can lead to patient cross contamination with hepatitis B or other virus

❖Features

1. Hydrophobic membrane with 0.2 micron pore size.
2. Prevents contamination of the internal pressure monitoring lines.
3. Antibacterial hydrophobic air filter with female luer lock/male luer lock
4. Connects blood tubing with dialysis machine.
5. Protective hydrophobic barrier allows only sterile air to pass through, protecting patients and equipment from cross contamination.
6. Prevents blood and dialyzing fluid from damaging sensitive transducer monitoring devices

❖Specifications

Effective Filtration Area	2.5 cm2
Materials of Construction Media	PTFE LAMINATE (hydrophobic membrane)
Inlet/Outlet Connections	Inlet: MLL;Luers conform to ISO594 Outlet: Male Luer Slip
Sterilization Compatibility	E.T.O.
Maximum Operating Temperature	50 °C
Pore Size	0.2 μm
Biological Safety	Materials of construction pass USP Class VI

Design Patent-Transducer Protector

中華民國專利證書

新式樣第 D 130528 號

新式樣名稱：連接管

專利權人：李國鈺

創作人：李國鈺

專利權期間：自2009年8月21日至2020年10月16日止

上開新式樣業經專利權人依專利法之規定取得專利權

經濟部智慧財產局

局長 王美花

注意：專利權人未依法繳納年費者，其專利權自原繳費期限屆滿之次日消滅。

中華民國 98 年 8 月 21 日

4-1. Membrane Filter

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

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

❖Ordering Information

⓪ M	① Membrane	② Diameter	③ Sterile	④ Pore size	⑤ 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(EO)	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

M-PVDF 013 N 045 I
⓪ ① ② ③ ④ ⑤

4-2. Sterile Membrane Filter

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

❖ Specifications

Diameter	37mm、47mm、90mm
Pore size	0.2μm、0.22μm、0.45μm
Membrane material	Hydrophobic PTFE、Hydrophilic PTFE、PVDF、Nylon、MCE、PES、CA
Sterization	EO、Gamma

❖ Ordering Information

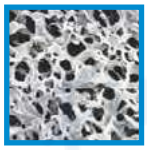
⓪ M	① Membrane	② Diameter	③ Sterile	④ Pore size	⑤ Membrane characteristics
Membrane Disc	PES PVDF PTFE Nylon MCE CA	037= 37mm 047= 47mm 090= 90mm	S(EO) G(Gamma)	022=0.22 um 045=0.45 um 080=0.8 um 100=1.0 um 120=1.2 um	I = hydrophilic O = hydrophobic ⑥ G = Gridded P = Pad

For example : M-MCE047G045I → 47mm, MCE membrane, 0.45um, gridded, sterile M-MCE 047 G 045 I-G
⓪ ① ② ③ ④ ⑤⑥

Membrane Filter

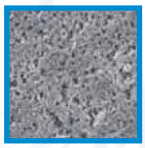
❖Membrane Types

►A. PVDF



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

►B. Nylon



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

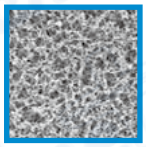
►C. Hydrophobic PTFE

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

►D. Hydrophilic PTFE

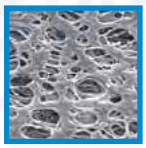
1. PTFE membrane with supporting layer polyester or polypropylene
2. Excellent chemical stability and particle retention
3. Apply to aqueous and organic solvent

►E. MCE



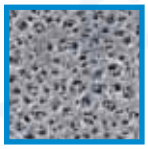
1. Apply to aqueous solvent
2. High porosity for increased flow rate

►F. PES



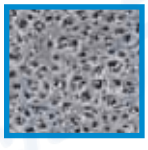
1. Minimizeds loss of key proteins
2. Binds significantly less protein than cellulose or Nylon
3. High Flow Rate

►G. CA



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

►H. Glass Fiber



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

Membrane Filter

❖Chemical Compatibility of Membrane

Solvent	Membrane				
		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
Hydochloric 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

4-3. General Glass Fiber Filter

Micro-glass fiber filters offer high efficiency, submicron particle retention combined with high permeability and high dust holding capacity . 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. Grades with binders can resist temperatures of about 180°C and brief exposures to 250°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 cm^2 , flow velocity 400 cm^2 /sec

Glass Fiber Filter

❖ Guide for General Glass Fibers Filter

Do you intend to filter liquids/ air/gases?

yes ↓

Does the filter need a high dirt holding capacity? — no → We recommend membrane filters and prefilters MGD,MGB and MG 160 for quicker filtration

yes ↓

efficiency in particle retention?

yes ↓

You should use glass or quartz fiber filters

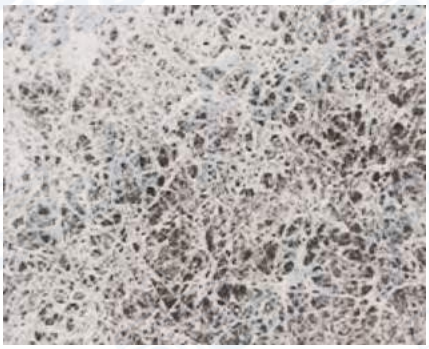
yes ↓

For temperatures > 500°C — no → For temperatures of max. 500°C

yes ↓

Quartz fiber filters MK 360 or T 293 (up to 900°C) or MG 550 - HA (up to 550°C)

REM—Micro-glass fiber filters binder-free.



REM—Micro-glass fiber filters with binder.

Retention

<1 µm	For very fine particles	Grade MGF
	For water pollution	Grades MGC, MG 550 HA
	Membrane prefilter for large particle volumes	Grade MG 160
	For air monitoring	Grade MGG
	For biochemical analysis	Grade MGA, MGG
	For membrane prefilters analysis	Grade MGA
3 µm	For coarse particle filters analysis	Grades MGA, MGD and MG 160

Glass Fiber Filter

Grade	Application
FTMGA	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
FTMGB	Filtration of suspended solids in water, waste water analysis, pre-filters for membranes, suitable for filtration of large volumes.
FTMGC	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
FTMGD	Universal membrane pre-filter material
FTMGF	Higher efficiency in particle retention for smaller particles than other glass fiber grades, clarification of protein solutions, filtration of liquids prior to HPLC
FTMGG	Filtration and monitoring of water
FTMG 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
FTMGA	GFA	111	GA-55
FTMGB	GFB	121	GB-140
FTMGC	GFC	131	GC-50
FTMGD	GFD	141	GD-120
FTMGF	GFF	151	GF-75
FTMG 550-HA	934- AH	161	n/a

4-4. "TCLP" Method Glass Fiber Filter

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

❖Specifications

Model No.	**M-GF0810N070M**
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
Filtration Speed(mls/min)	432μm(17 mils)

❖Cross Reference

Finetech	Whatman	E-D Scientific Specialities	Advantec
M-GF0810N070M	GF/F	151	GF-75

4-5. Suspended Method Glass Fiber Filter

Air monitoring
Gravimetric analysis

❖Specifications

Model No.	M-GHA0810N150M
Size	47mm
Filter Material	Borosilicate glass without binder
Nominal Pore Size	1μm
Thickness	330μm
Water Flow Rate mL/min/cm2 at 0.3 bar water	250
Air Flow Rate L/min/cm2 at 0.7 bar(70 kPa, 10 psi)	60
Maximum Operating Temperature	Air-550°C
Typical Aerosol Retention	99.98/%

❖Cross Reference

Finetech	Whatman	E-D Scientific Specialities	PALL
M-GHA0810N150M	934-AH	161	A/E

4-6. TSP Method Glass Microfiber Filter

(TSP) for air quality and particulate matter in perimeter air, with a particle size of 100 microns (m) or less.

►Filter paper under the pad PET, compartment protection, filter paper in the transport and use of the process is not easy to break.

►Print stamps, Easy to track.

❖Specifications

Model No	M-GHA0810N150M
Size	8”x10”(20cmX25cm)
Filter Material	Borosilicate glass without binder
Nominal Pore Size	1μm
Thickness	330μm
Water Flow Rate mL/min/cm2 at 0.3 bar by water	250
Air Flow Rate mL/cm2 at 0.7 bar(70 kPa, 10psi)	60
Maximum Operating Temperature	Air - 550°C
Typical Aerosol Retention*	99.98%

❖Cross Reference

Finetech	Whatman	PALL
M-GHA0810N150M	EPM 2000	A/E

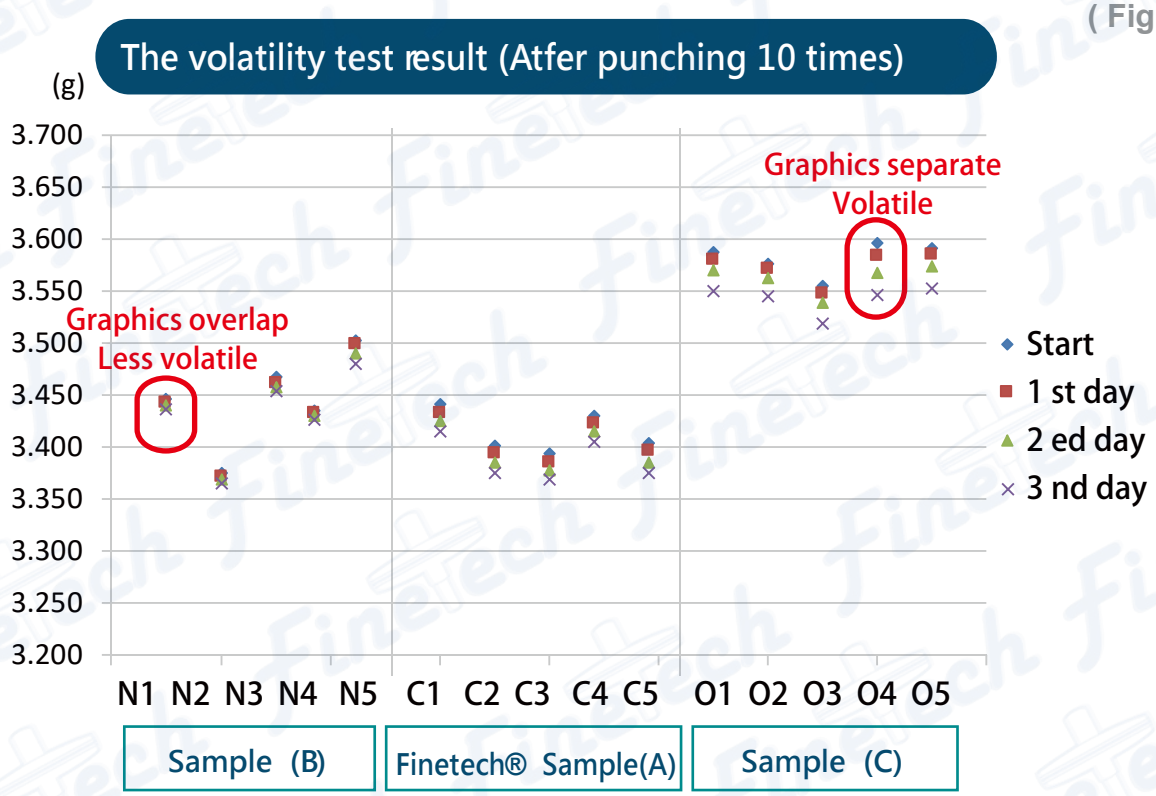
Septa. Cap & SAMPLE VIALS

5.

New Design of Septa

◆Volatility Test

(Fig 3)



◆Punching Test

Digital Tensile Strength Test Machine

I. Septa and cap are assembled as (Fig2)

II. Simulator : digital Tensile Strength Test Machine to measure the resistance force

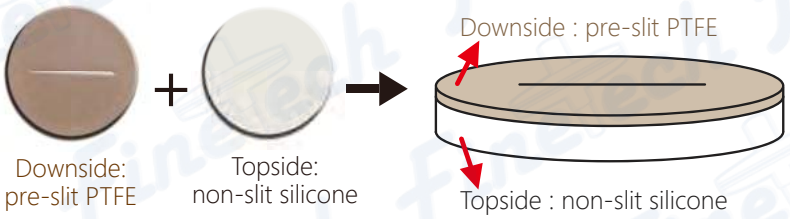
III. Measure the strength of a flat needle punching septa

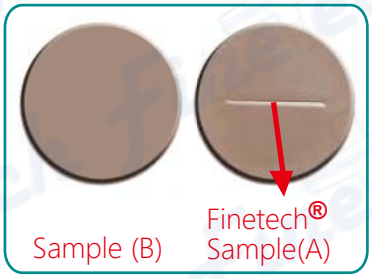
IV. Resistance force Finetech® Sample : 0.17-0.21 kgf

Resistance force Sample (B) : 0.34-0.39 kgf

New Design of Septa

Pre-Slit PTFE/non-slit silicone Septa





◆Septa Benefit

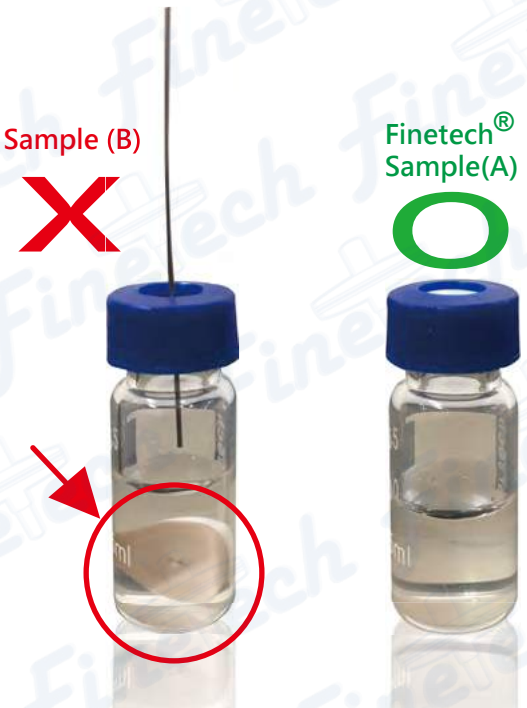
Finetech® Sample (A) : Pre-slit PTFE / non-slit silicone septa.

Sample (B) : Non-slit PTFE /silicone septa.

Sample (C) : Pre-slit PTFE /silicone septa.

1. Finetech® Sample (A) will not be dropped off after punching many times, which is better than Sample (B) as (Fig1).
2. Finetech® Sample (A) can keep better volatility of solvent than Sample (C) as (Fig3).
3. Finetech® Sample (A) decreases the damages of micro-syringe than Sample (B).
4. Finetech® Sample (A) decreases the resistance of punching than Sample (B).
5. Finetech® Sample (A) is made of the original PTFE and Silicone.

(Fig 1)



(Fig 2)

5-1. Autosampler Vials & Cap

◆ HPLC 2ml Vials & Caps (8-425)

High quality
Unique thread design
USP TYPE I Grade
OEM Accepted



❖ Specifications

Model No.	Size	Description
V8A	11.6*32mm	2ml small opening short screw-thread vial,clear
V8B		2ml small opening short screw-thread vial with write-on spot,clear
V8C		2ml small opening short screw-thread vial,amber
V8D		2ml small opening short screw-thread vial with write-on spot,amber
SC8A8A	Φ8mm	white PTFE/red Silicone septa, black screw PP cap,5.5mm centre hole
SC8AA8A		pre-slit white PTFE/red Silicone septa, 8mm black screw PP cap,5.5mm centre hole
SC8F8F		Nature PTFE/white Silicone spata, 8mm blace screw PP cap, 5.5mm centre hole
S8A		white PTFE/red Silicone septa
S8F		Nature PTFE/white Silicone speta

100pcs/pk

◆ HPLC 2ml Vials & Caps (9-425)

9-SP2001-2GM


❖ Specifications

Model No.	Size	Description
V9A	11.6*32mm	2ml wide opening short screw-thread vial,clear
V9B		2ml wide opening short screw-thread vial with write-on spot,clear
V9C		2ml wide opening short screw-thread vial,amber
V9D		2ml wide opening short screw-thread vial with write-on spot,amber
9-SP2001-2GM	Φ9mm	9-425 Open Top Gold Magnetic Screw Cap
SC9A9A		white PTFE/red Silicone septa, 9mm blue screw-thread pp cap, 6mm centre hole
SC9F9F		nature PTFE/white Silicone septa, 9mm blue screw-thread pp cap, 6mm centre hole
SC9FF9F (NEW)		pre-slit nature PTFE/non-slit white Silicone septa, 9mm blue screw-thread pp cap, 6mm centre hole
SC9F9FR		Caps and Septa Blue caps- PP material Septa - Nature PTFE / Red Silicone
S9A		white PTFE/red Silicone septa
S9F		nature PTFE/white Silicone septa
S9FF (NEW)		pre-Slit nature PTFE/non-slit white silicone septa

100pcs/pk

5-2. Crimp Autosampler Vials & Cap

◆2ml Crimp Top Vials

- Applied to Shimadzu Varian, and other autosampler
- Caps are made of high quality aluminum

❖Specifications

Model No.	Size	Description
V11A	11.6*32mm	2ml wide opening crimp-top vial,clear
V11B		2ml wide opening crimp-top vial with write-on spot,clear
V11C		2ml wide opening crimp-top vial,amber
V11D		2ml wide opening crimp-top vial with write-on spot,amber
SC11A11B	Ø12x32mm	white PTFE/red Silicone septa, 11mm crimp-top aluminum cap,5.5mm centre hole
SC11A11A	Φ11mm	white PTFE/red Silicone septa, 11mm crimp-top aluminum cap,5.5mm centre hole
SC11F11A-1		Non-slip Nature PTFE/White Silicone septa,11 mm crimp -top aluminum cap, 5.5 mm centre hole
SC11AA11A		pre-slit white PTFE/red Silicone septa, 11mm crimp-top aluminum cap,5.5mm centre hole

100pcs/pk

◆Micro Insert & Shell Vials

❖Specifications

Model No.	Size	Description
IPA150	29*5mm	150ul Insert with mandrel interior and polymer feet, suits for ND8 Vials
IPB250	29*5.7mm	250ul Insert with mandrel interior and polymer feet, suits for ND9 Vials
IPB250-P	29*5.7mm	250ul Plastic Insert with mandrel interior and polymer feet,suits for ND9 Vials
IA250	31*5mm	250ul Micro-Insert, clear glass, flat bottom, suits for ND8 Vials
IB300	31*6mm	300ul Micro-Insert, clear glass, flat bottom, suits for ND9 Vials
V18A	8.2*40mm	1ml shell vials, 1st hydrol glass, clear, 8mm PE-Plug, soft, without insertion

100pcs/pk

5-3. Autosampler Vials & Cap

◆4ml Vials & Caps

❖Specifications

Model No.	Size	Description
V13A	15*45mm	4ml screw-thread vial, clear
V13B		4ml screw-thread vial, clear with write-on spot
V13C		4ml screw-thread vial, amber
V13D		4ml screw-thread vial, with write-on spot, amber
SC13D13B	Φ13mm	nature PTFE/nature silicone speta, 13mm black screw PP cap, closed-top
SC13A13A		white PTFE/red Silicone septa, 13mm black screw PP cap,8.5mm centre hole
SC13AA13A		pre-slit white PTFE/red Silicone septa, 13mm black screw PP cap,8.5mm centre hole
S13A		white PTFE/red Silicone septa

100pcs/pk

◆8ml & 12ml Vials & Caps

❖Specifications

Model No.	Size	Description
V08A	17*60 mm	8ml screw-thread vial (17 x 60 mm), clear, borosilicate.
V08C	17*60 mm	8ml screw-thread vial (17 x 60 mm) , amber, borosilicate.
V12A	18.75*65mm	12ml screw-thread vial 18.75×65mm,clear, borosilicate.
V12C	18.75*65mm	12ml screw-thread vial 18.75×65mm,amber, borosilicate.
SC15D15B	15.5*10mm	Black Closed Cap with Nature PTFE/White Silicone septa

100pcs/pk

Sample Vials

◆10ml & 20ml Screw-Tread Headspace Vials & Caps

- Applied to Shimadzu Varian, and other autosampler
- Caps are made of high quality aluminum

❖Specifications

Model No.	Size	Description
VA101A	22.5*46mm	10ml Clear precision screw-thread vial, round bottom
VA201A	22.5*75.5mm	20ml Clear precision screw-thread vial, round bottom
SACA00A	Φ18mm	blue PTFE/white silicone septa, 18mm magnetic precision screw-thread metal cap, 8mm centre hold

100pcs/pk

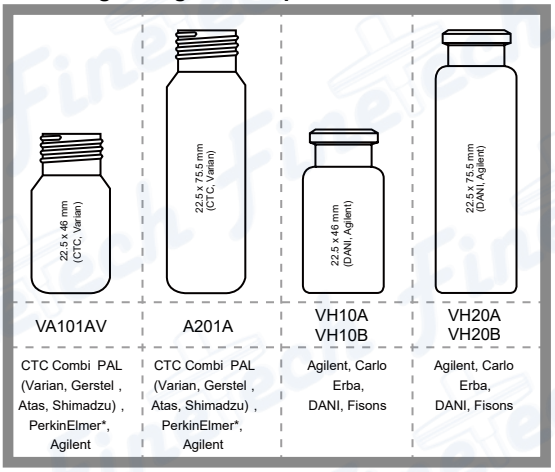
◆10ml & 20ml Crimp-Top Headspace & Caps

❖Specifications

Model No.	Size	
VH10A	22.5*46mm	10ml crimp headspace clear vial, flat bottom
VH10B	22.5*46mm	10ml crimp headspace amber vial, flat bottom
VH20A	22.5*75.5mm	20ml crimp headspace clear vial, flat bottom
VH20B	22.5*75.5mm	20ml crimp headspace amber vial, flat bottom
SC20B20A	Φ20mm	nature PTFE/nature silicone septa, 20mm crimp-top aluminum cap, 10mm centre hol
SBC20B20B	Φ20mm	nature PTFE/nature silicone speta, 20mm crimp-top blue magetic aluminum cap.10mm centre hol

100pcs/pk

Choosing the right Headspace Vials at the bottom



VA101AV	A201A	VH10A VH10B	VH20A VH20B
CTC Combi PAL (Varian, Gerstel , Atas, Shimadzu) , PerkinElmer*, Agilent	CTC Combi PAL (Varian, Gerstel , Atas, Shimadzu) , PerkinElmer*, Agilent	Agilent, Carlo Erba, DANI, Fisons	Agilent, Carlo Erba, DANI, Fisons

Headspace Vials and Closures

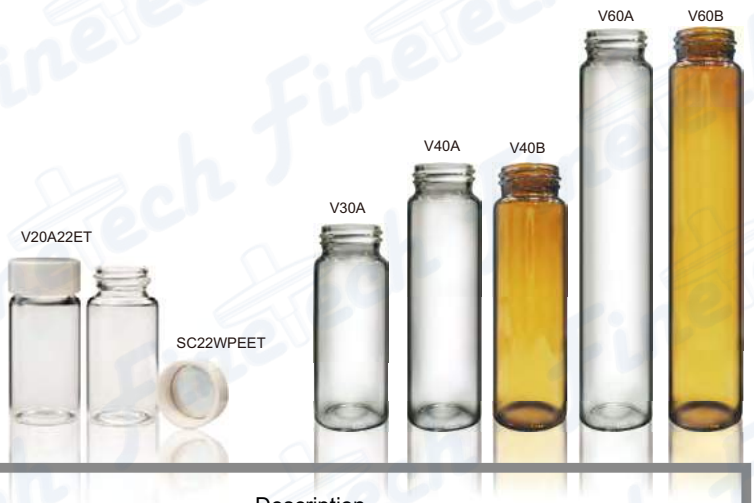
Headspace vials are available in both 10 mL and 20 mL capacities, flat or rounded bottom. The 20 mm crimp caps provide a consistently secure seal.

- Choice of crimp or screw top vials
- Beveled top for maximum secure seal
- Two neck lengths available
- Choice of a pressure satety release cap at 45 psi
- Available in flat or rounded bottom designs

Sample Vials

Storage Vials

- Volume from 20ml to 60ml
- PTFE septa can resist organic solvent
- Caps are made of high quality polypropylene



Specifications

Model No.	Size	Description
V20A22ET	27*58mm	20ml screw-thread vial, clear glass
V20B22ET		20ml screw-thread vial, amber glass
SC22WPEET	Φ22mm	White closed top PP cap + 22mm white PE septa
V20A	27*58mm	20ml screw-thread vial, clear glass
V20B		20ml screw-thread vial, amber glass
V30A	27*75mm	30ml screw-thread vial, clear glass
V40A	27*95mm	40ml screw-thread vial, clear glass
V40B		40ml screw-thread vial, amber glass
V60A	27*140mm	60ml screw-thread vial, clear glass
V60B		60ml screw-thread vial, amber glass
SC22A22A	Φ22*3mm	nature PTFE/nature Silicone septa 22*3mm, 22mm white screw PP cap, 15mm centre hole
SC22A22B	Φ22*1.5mm	nature PTFE/nature Silicone septa 22*1.5mm, 22mm white screw PP cap, closed-top
SC22A22C	Φ22*3mm	nature PTFE/nature Silicone septa 22*3mm, 22mm black screw PP cap, 15mm centre hole
SC22A22D	Φ22*1.5mm	nature PTFE/nature Silicone septa 22*1.5mm, 22mm black screw polypropylene cap, closed-top
S22A-I	Φ22*3mm	nature PTFE/nature Silicone septa 22*3mm
S22A-II	Φ22*1.5mm	nature PTFE/nature Silicone septa 22*1.5mm

100pcs/pk

Why Choose VOA Vials?

VOA vials are specifically designed for use with volatile organic compounds.They are availble in both clear and amber borosilicate glass and have a temperature range of -40°C to 125°C.

- Ready to use combination seals： no time-consuming and tricky assembly
- No contamination of the liner with sweat/fat that normally is caused by manual assembly
- Available as closed top screw or with centre hole in white or black 24-400 caps
- Broad variety of different septa materials for almost all applications

5-4. Plastic Micro Vials

◆9mm Plastic Vials

❖Product

►Product Name: 9mm Plastic Micro Vial
►Maximum capacity: 300ul
►Recommended capacity: 250ul
►Bottle size: bottle height 32mm
►Thread diameter: 9mm
►Bottom diameter: 11.6mm
►Material: Polypropylene(PP)
►Packing quantity: 100 pcs / box

❖Specifications

Model No.	Size	Description
VP9A	9*11.6mm	0.3ml Short thread micro injection sample vials, clear, Polypropylene
VP9C	9*11.6mm	0.3ml Short thread micro injection sample vials,amber, Polypropylene

100pcs/pk

◆9mm Glass Micro Vials

❖Product

►Product Name: 9mm Glass Micro Vial
►Maximum capacity: 300ul
►Recommended capacity: 250ul
►Bottle size: bottle height 32mm
►Thread diameter: 9mm
►Bottom diameter: 11.6mm
►Material: Polypropylene (PP)
►Packing quantity: 100 pcs / box

❖Specifications

Model No.	Size	Description
VL9A	9*11.6mm	300ul thread fusion type vials, clear, borosilicate.
VL9B	9*11.6mm	300ul thread fusion type vials, clear, write-on spot, borosilicate.
VL9C	9*11.6mm	300ul thread fusion type vials, amber, borosilicate.
VL9D9	*11.6mm	300ul thread fusion type vials, amber, write-on spot, borosilicate.

100pcs/pk

◆Certificate of Conformity

Date: 2008-03-04

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 H_2SO_4 / 10 g glass
FIOLAX ® amber : 0.35 ± 0.05 ml 0.02 N H_2SO_4 / 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

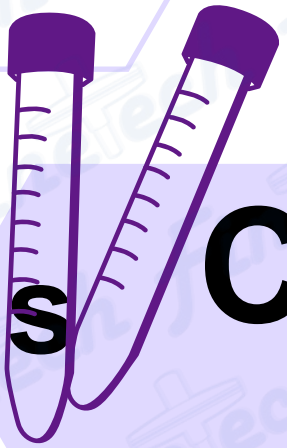
1.0 ml 0.02 N H_2SO_4 / 10 g glass

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. Other Supplies



6-1. Vacuum Pump Filtration System

◆A : Vacuum Pump

VS01

- High chemical resistant
- No air pollution, maintenance free
- Thermal protection device
- Quiet and low vibration

VS08

- High chemical resistant
- No air pollution, maintenance free
- Thermal protection device
- Low vibration/High vacuum High flow rate/ High horsepower

❖Specifications

	VS01		VS08	
Frequency	110V/60Hz	220V/50Hz	110V/60Hz	220V/50Hz
Power (W)	70		560	
Vaccum (mmHg)	680		700	
Max Flow Rate (L/min)	22	18	1109	0
Horse Power (HP)	0.1		0.75	
Noise Level (dBA)	58		61	
N.W. (kg)	41		1	
L*W*H (cm)	20*15*19		35*21*26	

◆B : Waste container

Model No.	Capacity	Material
GM-PC01	1L	PC
GM-PC02	2L	
GM-PC04	4L	


1L

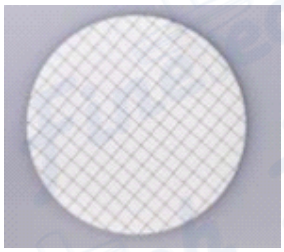

2L


4L

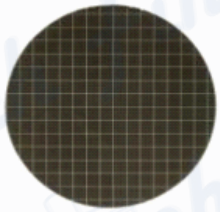
◆C : Membrane Filters

I : Multiple choices of membranes: PVDF, Nylon, PTFE, CA, MCE, PES etc
II : MCE, sterile, 47mm, 0.45um

White gridded disks for General Purpose Examination of all Microorganisms, the recovery and retention of E. Coli bacteria in water/wastewater analysis as well as other microbiological tests.



Black gridded disks to assist in manual counting procedures, analysis of yeast and mold and Legionella sp. Examination of White, beige colonies. Providing contrast between residue or cell colors and the filter without having to counter-stain the membrane.



· Pore size from 0.1um to 5um

III : Glass Fiber Filter

Grade	Application
FTMGC	Apply for TSS or SS (Total suspended solids)
FTMGF	Apply for TCLP(Toxicity Characteristic Leaching Procedure)142mm, 0.7um
FTMG550 HA	Apply for TSS or SS (Total suspended solids)

Vacuum Pump Filtration System

D-1 : 47mm Glass Filtration Set

- Quality imported glass material, uniform thickness, no bubbles
- Good sealing performance, high flow rate, standard ground
- Autoclavable

▶ 2000-1000

Specifications

Model No.	Holder	Ground joint flask
2000-250	300ml	250ml
2000-500		500ml
2000-1000		1000ml
2000-2000		2000ml
2000-5000		5000ml

1Set/Pks,6Pks/CTN

D-2 : Stainless Filtration Set

- SUS316
- Excellent Chemical Resistance
- Individual Control valve

Specifications

Grade	Commodity	Description
FTFA0204	Manifolds Filtration Apparatus	3 branch,glass funnel
FTFA0205	Manifolds Filtration Apparatus	3 branch,glass funnel
FTFA0221	Manifolds Filtration Filtration	3-branch,All SUS.without clamp
FTFA0222	Manifolds Filtration Filtration	6-branch,All SUS.without clamp
FTFA0223	All SS Manifolds Vacuum Filtration	3-branch,All SS300ml funnel,with clamp
FTFA0224	All SS Manifolds Vacuum Filtration	6-branch,All SS300ml funnel,with clamp

7. Centrifuge Tubes

Conical-Bottom Centrifuge Tubes, Polypropylene, 15mL

Increase traceability of samples with one of the largest writing areas on the market when using 15mL Conical-Botton Polypropylene Centrifuge Tubes. These premium, high-quality conical tubes are environmentally friendly and offer high cleanliness with a recyclable plastic rack.

Part No : FT-tube15-EO
Capacity : 15mL
Packaging Option : Peel Pouch Bag

Cap Option : Flat
Inner Pack Q'ty : 25 / 100
Case Qty : 1000

◆15ml Centrifuge Tubes

❖Product

- ▶These conical-bottom tubes are made of ultra-clear polypropylene
- ▶Cap Materails : HDPE
- ▶Leakproof
- ▶Black printed graduations with large white marking strip for labeling
- ▶Sterility : EO
- ▶Easy for single-hand operation
- ▶Large white writin arrea for easy marking
- ▶Clear graduations provide an easy volume reference

❖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

Conical-Bottom Centrifuge Tubes, Polypropylene, 50mL

Increase traceability of samples with one of the largest writing areas on the market when using 50mL Conical-Botton Polypropylene Centrifuge Tubes. These premium, high-quality conical tubes are environmentally friendly and offer high cleanliness with a recyclable plastic rack.

Part No : FT-tube50-G
Capacity : 50mL
Packaging Option : Peel Pouch Bag

Cap Option : Flat
Inner Pack Q'ty : 25
Case Qty : 500

◆50ml Centrifuge Tubes

❖ Product

►Autoclavable at 121°C 15psi for 15 minutes and freezable to -80°C.
►Black printed graduations and writing area can withstand chloroform.
►Leak proof,resistant to work in 65°C hybridization oven for one hour.
►Max. RCF:9400,E-Beam or Gamma Ridiation sterilized.
►These conical-bottom tubes are made of ultra-clear polypropylene
►Cap Materails : HDPE
►Leakproof
►Easy for single-hand operation
►Large white writin arrea for easy marking
►Clear graduations provide an easy volume reference
►Black printed graduations with large marking strip for labeling
►Sterility : EO

❖Specifications

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

Digestion vessels provide premium performance in your HotBlock or AutoBlock™. These vessels are molded of clarified homopolymer polypropylene assuring higher working temperatures and greater chemical resistance than the commonly used co-polymer polypropylene. Vessels are graduated to 50mL and have a total 63mL capacity.

The threaded cap is lined with a polyethylene-faced foam liner for a leak-proof seal. Only the metals-free polyethylene liner contacts the sample. 500 vessels with caps.

◆ 50mL Digestion Vessel with Screw Cap

❖ Product

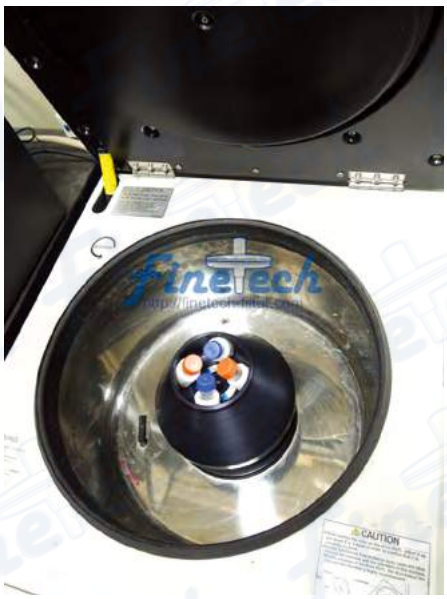
►Tube material : polypropylene
►Cap material : Polyethylene
►Volume (mL) : 50mL

❖ Specifications

Product Type	Digestion Cups
Volume(mL)	50
Tube material	Polypropylene
Cap material	Polyethylene
Qty/pk	500
Brand	Finetech

FINETECH's centrifuge tube pass air leakage test and can reach Maximum RPM at 15,000rpm.

◆Test Report of Centrifuge Tubes



►During 4°C ~ 25°C the highest RPM can reach 21,800xg

►Sterility Test by the Third Party

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

Bacterial medium　　Fungi medium

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

8. 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 suctions 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.

❖Product

- ► Made by food-grade silicone material.
- ► Stoppers fit tightly to prevent chemical leaks.
- ► Exhibit very low gas transmission properties.
- ► Made in Taiwan.
- ► 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

❖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

10. pH Standard Buffer

In order to provide measurement trace-ability and quality control, an affiliated testing lab following ISO/IEC 17025:2005 was established in 2015 and accredited by Taiwan Accreditation Foundation (TAF) with certification number 2997. The standard solutions include various pH standard buffer, 0.1N, 0.5N, 1.0N of HCl and NaOH titrant, and 0.01M, 0.1M EDTA titrant.

❖ Features

※ Every production lot has been tested and shipped with certificate.
※ The measurement can be traceable to NIST SRM.
※ Cost effective solutions.

❖ Specifications

Cat. No.	Description	Package
A301	pH Standard Buffer Solution-pH 4.01 ± 0.02 (25 °C)	500 mL/1 L/20 L
A302	pH Standard Buffer Solution-pH 6.86 ± 0.02 (25 °C)	500 mL/1 L/20 L
A303	pH Standard Buffer Solution-pH 7.00 ± 0.02 (25 °C)	500 mL/1 L/20 L
A304	pH Standard Buffer Solution-pH 9.18 ± 0.02 (25 °C)	500 mL/1 L/20 L
A305	pH Standard Buffer Solution-pH 10.00 ± 0.02 (25 °C)	500 mL/1 L/20 L

11. Homogeneous stone

The recovery of various pesticides in many food substrates is satisfactory, simplifying simple steps and reducing the likelihood of errors

The least use of organic solvents, the safety of analysts and environmental protection, significant savings in time and cost.

Product	Quantity / pack	Product number
Homogeneous stone used in 50ml extraction tube	100	009903B
Homogeneous stone used in 15ml extraction tube	100	009902B
Homogeneous stone used in 2ml extraction tube	100	009901B

❖ Related methods

1. Determination of 51 pesticide residues in fruits and vegetables
2. EN 15662 Plant sources - Determination of pesticide residues by GC-MS and / or LC-MS / MS Acetate extraction /After dispensing by dispersing the SPE-QuEChERS method for cleaning
3. ACAC OFF PROCESS 2007.01 Pesticide residues in food are extracted and distributed by acetonitrile with magnesium sulfate The recovery of various pesticides in many food substrates is satisfactory.
4. Suitable for 2ml / 15ml / 50ml centrifuge tube and lid
5. A sample with a high percentage of water can not be added directly to the salt, for an exothermic reaction that may affect the recovery of the analysis, Starlab prepackulates its QuEChERS salt and buffer (AOAC & EN) in an anhydrous package, which allows you Add them after adding the solvent to the sample, as described in the QuEChERS method.
6. Ceramic homogeneous stone can improve your overall laboratory productivity and make you more confident in the results. Take the required extraction time from 60 seconds to 20 seconds - save 70% of each sample time
7. Maintain highly repeatable extraction over a third of the time
8. Minimize the differences between technical personnel
9. Break the salt and keep the homogeneous material homogeneous
10. The same high quality ceramic homogeneous stone provided in our QuEChERS package can also be purchased in batches to provide excellent sample grinding capability.

11. PTFE Tubes

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 suctions 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.

❖ Product

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

❖ Specifications

OD x ID (mm)	weight (g)	Burst pressure (kg/cm²)	working pressure (kg/cm²)
4 x 2	22	127	127
5 x 3	29	95	95
6 x 4	37	76	76
6.35 x 4.57	35	48	48
8 x 5	54	74	74
8 x 6	51	54	54
9.5 x 7.5	70	45	45
10 x 8	66	42	42

OD x ID (mm)	weight (g)	Burst pressure (kg/cm²)	working pressure (kg/cm²)
12 x 10	80	35	12
12.7 x 10.5	100	35	12
13 x 11	87	32	11
14 x 12	95	29	10
15 x 13	102	27	9
16 x 14	109	25	8
18 x 16	111	23	8
22 x 19	223	28	9

❖ Applications

- **Automotive** - the ability of PTFE to withstand temperatures in excesss of 250°C makes it an ideal candidate for high temperature fluid transfer.
- **Medical** - PTFE tubing is in huge demand due to its lubricty and chemical inertness.
  Catheters employing PTFE tubing can be inserted into the human body without fear of reaction or abrasion any body parts.
- **Chemical & laboratories** - PTFE is an ideal replacement for glass due to its inertness and durability.
- **Electical** - the excellent dielectric properties of virgin PTFE make it well suited for insulating high voltage cables.

FINETECH RESEARCH & INNOVATION CORP.

LINE

WEBSIDE

Contact us

FINETECH RESEARCH & INNOVATION CORP.

● Filter ● Sample vials ● Glass fiber filter ● Biochemical supplies ● Syringe filter ● Air filter

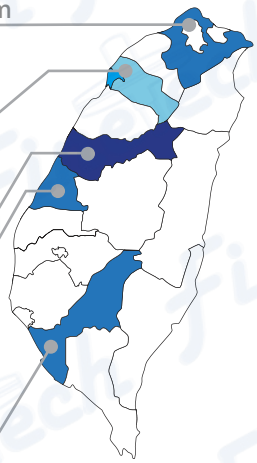
Taipei TEL : 02-2996-4887 FAX : 02-2996-5381 Mail : sales08@finetech-filters.com
No.22, Aly. 7, Ln. 270, Zhongping Rd., Xinzhuang Dist., New Taipei City 242

Hsinchu TEL : 03-610-2469 CEL : 0980339172 Mail : sales13@finetech-filters.com

Taichung TEL : 04-2386-3538 FAX : 04-2380-2098 Mail : sales08@finetech-filters.com
No.72, Wenshan 9th St., Nantun Dist., Taichung City 408

Changhua TEL : 04-768-7839 FAX : 04-768-1505 Mail : kelly@finetech-filters.com
No.29, Anle St., Xiushui Township, Changhua County 504

Kaohsiung TEL : 07-727-6469 Mail : edison@finetech-filters.com



Finetech
http://www.finetech-filter.com