

#### 11 Syringe Filter Advantages

1. Produced in class 7/10,000 clean room environment to ensure the product's cleanliness and to prevent contamination.

2. The inlet and outlet meets the requirements of ISO 594-1. The tight connection between syringe and filter prevents any leakage.

3. Number on filter housing for traceability and quality control.

4. Compliance with ISO13485 to ensure standard production process and management.

5. Patented drainage design of outlet that makes the liquid flow easily.

6. 25mm syringe filters available with **double/triple layers** for filtering samples with high solid content.

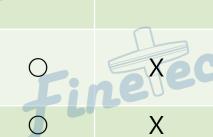
7. Syringe filter does not contain plasticizer.

8. Filter housing made of medical grade (USP Plastic Class VI) PP.

9. HPLC extractables tested against Millipore's syringe filter.

10. Residual volume test meets international requirement.

11. Burst test greater than 5 kg/cm<sup>2</sup>.



**Finetech** 

Brand

Low Priced

Filter

(China)

Х



### 1. Produced in Class 7 Clean Room (Fed. Std-209E Class 10,000 Equivalent)

 ISO 14644-1:2015 Cleanroom Standard

 Class
 Maximum Particles (/m³)

 ISO 14644-1:2015 Cleanroom Standard

 ISO 1464-1:2015 Cleanroom Standard

Cla	ass	Maximum Particles (/m³)						
ISO14644-1	Fed. Std-209E	0.1 µm	0.2 µm	0.3 µm	0.5 µm	1.0 µm	5.0 µm	
Class 1		10	E			b n		
Class 2		100	24	10	B			
Class 3	Class 1	1,000	237	102	35			
Class 4	Class 10	10,000	2,370	1,020	352	83		
Class 5	Class 100	100,000	23,700	10,200	3,520	832	E	
Class 6	Class 1,000	1,000,000	237,000	102,000	35,200	8,320	293	
Class 7	Class 10,000				352,000	83,200	2,930	
Class 8	Class100,000				3,520,000	832,000	29,300	
Class 9	<b>D</b> H	20			35,200,000	8,320,000	293,000	

Start Time: 2019-07-03 13:00:53 Start Time: 2019-07-03 13:20:22

	Start Time: 201 Location	t Time: 2019-07-03 13:20:22 ocation Status Sampling Time (Sec)			0.3um	0.5um	0.5um 5.0um Unit		
	1	OK	60	1	235000	58300	9890	/m3	
	2	OK	60	1	214000	55100	6710	/m3	
	3	OK	60	1	209000	30400	4240	/m3	
L	4	OK	60	1	286000	48400	8120	/m3	
	5	OK	60	1	346000	138000	28300	/m3	
5	- 6	OK	60	1	135000	14500	1770	/m3	
	7	OK	60	1	167000	31800	6000	/m3	
U	8	OK	60	1	215000	57200	14800	/m3	
	9	OK	60	1	251000	53000	8480	/m3	
	10	OK	60	1	208000	52600	5300	/m3	
	11	OK	60	1	364000	102000	13800	/m3	
	12	OK	60	1	213000	45200	7420	/m3	
	13	OK	60	- 1	201000	60000	2120	/m3	





Clean room environment prevents dust and hair contamination.

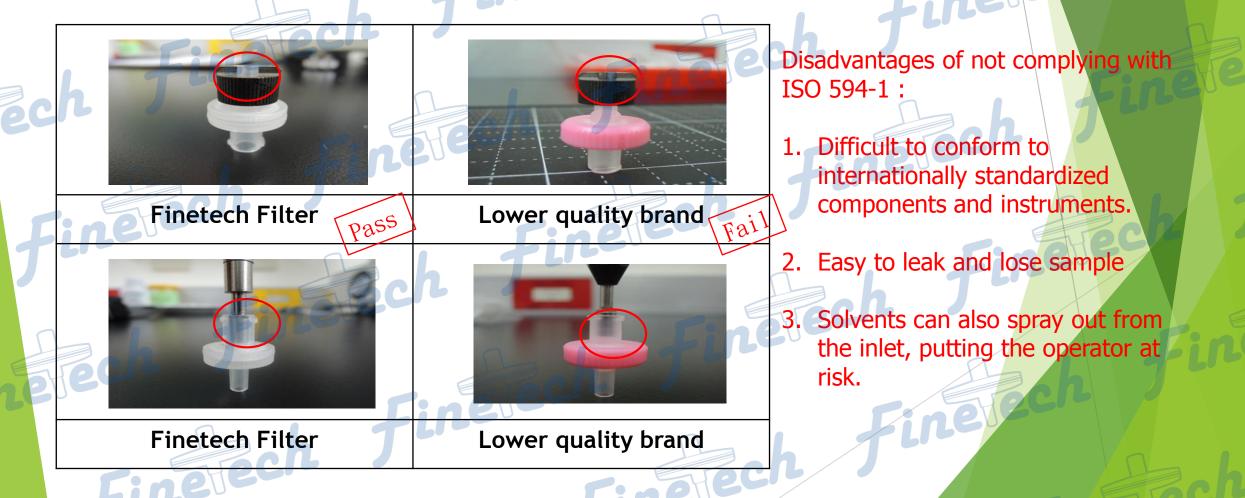
2. Reduces particles especially from the outlet of the filter, which will protect columns from damage

## 2. Complies with ISO 594-1 ine ech

Inlet and Outlet connects tightly with syringes and needles.

Meets all the requirements of ISO 594-1 (6% Luer)

(\*Luer locks are used in a variety of medical devices and drug delivery applications)



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## 3. Syringe Filter Housing QC Number Finelech

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Je ech Factor quality control management The Fine ec

Finetech

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## 4. ISO13485 Certified

Certificate No. Certificato N.

> WE HEREBY CERTIFY THAT THE QUALITY MANAGEMENT SYSTEM OPERATED B SI CERTIFICA CHE IL SISTEMA DI GESTIONE PER LA QUALITÀ DI

9392/0

Finetech Research And Innovation Corp. No. 29, Anle St., Xiushui Township, Changhua County, Taiwan, R.O.C.

IS IN COMPLIANCE WITH THE STANDARD/ É CONFORME ALLA NORM

UNI CEI EN ISO 13485:2016 Quality Management System / Sistema di gestione per la qualità

FOR THE FOLLOWING ACTIVITIES / PER LE SEGUENTI ATTIVIT.

#### EA: 19

sign, Manufacture, Sales and Trading of Transducer Protector, Recirculation Connector, Female Luer Lock Cap, Suction Unit, Air Vent Filter and Feeding Set for Medical Use

Refer to be sourcestance of the basic Management System for deals of application in where a density regulariset. Refer aid to constructions will be similar of basics prove to deal sciencial per fragmation and demands. For and the webpit of this contracts along the sequences of the EM document Tables for the conflication of company management system. " Tables and the webpit of this contracts along the sequences of the EM document Tables for the conflication of company management system." Tables and the webpit of this contracts along the EM document Tables for the conflication of company management system." Tables and the second tables are along the sequences of the EM document Tables for the conflication of company management system. Tables are contract the contract with the second tables and tables and tables are along the second tables and webpit tables. passes contract the contracts - 300 ZESM of re and addeau belightmit. Pare information particular system contracts and the contracts of tables.

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CURRENT ISSUE EXPIRING DATE DATA DI SCADENZA 18/03/2019 17/03/2022

ICIM S.p.A. Enrico Mapelli, 75 - 20099 Sesto San Giovanni (MI) - www.iolm.it A tougher and more rigorous standard for medical devices safety and effectiveness, compared to the more customer satisfaction based ISO 9001.

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CISQ

CISO is a member of

5. Patented Drainage Design of Outlet

elech : 自 2011年12月1日至 2021年7月7日止 利法規定通過形式審查取得專利權 ₩<br />
<br />

Sinolech

Drainage Design

Piech

Allows liquids to easily flow out, lowering the "Hold-up Volume".

# 6. Double Layer Filter Design (DualTech)

Layer1

Layer2 🗲

Sample flow

ze ech

Layer1

eech

Layer2



Layer 1 Glass prefilter(GF) down to 1 µm

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

- Increased filter durability.
- Filters high particulate samples.
- Higher volume throughput.

Sino ec

# 6. Triple Layer Filter Design (TriTech)

Layer 1 🐟

Layer 2 d

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Layer 2

Tech

Layer 3

Layer 1



pore size from 1-10um

Glass prefilter(GF)

Layer 1



Layer 2 Glass prefilter(GF) down to 1 um

Sinolec



Layer 3 Membrane filter Nylon, PVDF, PTFE, etc. Filters down to 0.45um or 0.2um

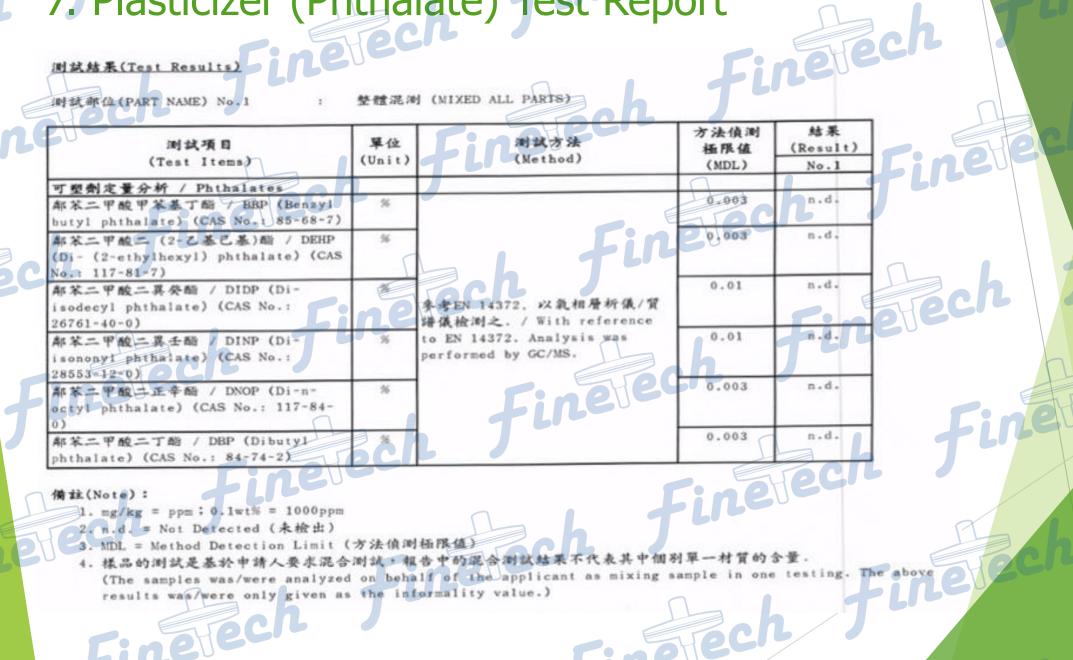
Able to filter samples with much higher solid concentrations.

Sample

flow

• Increased volume throughput over dual layer and other filters.

# 7. Plasticizer (Phthalate) Test Report



## 8. Medical Grade PP Material Certification Fine ech

Confidential TCLVI EO7

C.F. Tsai Formosa Plastics Corporation 1 Hsin-Hwa 1st Road Lin-Yuan Village Kaohsiung Hsien, Taiwan Lab No. 07T\_41446\_11 P.O. No. 75708007 Test Facility: NAMSA 6750 Wales Road Northwood, OH 43619

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REISSUED REPORT

CERTIFICATE OF COMPLIANCE USP BIOLOGICAL REACTIVITY TESTS, IN VIVO

USP PLASTIC CLASS VI

Test Article: P ID No. S

Polypropylene Pellets, YOUNGSOX 5090T See Test Article

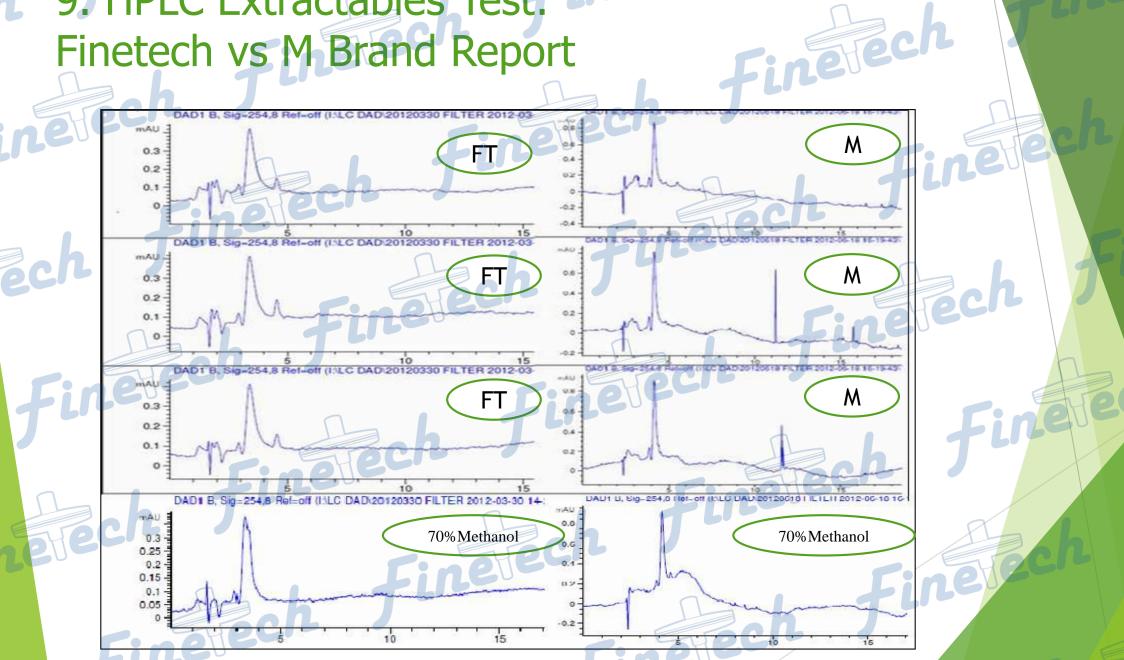
<u>USP Systemic Toxicity Study in the Mouse</u>: The test article was prepared as indicated below and injected into mice. The saline, alcohol in saline, polyethylene glycol 400 and sesame oil extracts did not produce a significantly greater systemic reaction than the blank extractants.

<u>USP Intracutaneous Toxicity Study in the Rabbit</u>: The test article was prepared as indicated below and injected intracutaneously into rabbits. The saline, alcohol in saline, polyethylene glycol 400 and sesame oil extracts did not produce a significantly greater tissue reaction than the blank extractants.

<u>USP Muscle Implantation Study in the Rabbit</u>: The macroscopic reaction of the test article, implanted in rabbit muscle for 1 week, was not significant when compared to the USP negative control plastic.

The test article was prepared at a ratio of 4 g:20 ml and extracted at 70°C for 24 hours. The test article extracts met the requirements of a USP Plastic Class VI.

9. HPLC Extractables Test Fine ech Finetech vs M Brand Report



## 10. Finetech and Millipore Volume Residual Test

	Product	Company	Sample 1 Residual Volume (mL)	Sample 2 Residual Volume (mL)	Sample 3 Residual Volume (mL)	Average Residual Volume (mL)	
ne	33mm (Hydophilic) PVDF0.22µm	Millipore	0.0558	0.0581	0.0443	0.0527	
ech Fi	25mm (Hydophilic) PVDF0.22μm	FT Brand	0.0857	0.0933	0.0889	0.0893	
	25mm (Hydrophobic) PTFE0.22µm	Millipore	0.1272	0.1443	0.1103	0.1273	
	25mm (Hydrophobic) PTFE0.22µm	FT Brand	0.0555	0.0596	0.1645	0.0932	
	33mm (Hydophilic) Nylon0.45µm	Millipore	0.0850	0.0912	0.0677	0.0813	
Π	25mm (Hydophilic) Nylon0.45µm	FT Brand	0.0599	0.0760	0.0614	0.0658	
BEU	33mm (Hydophilic) Nylon0.2µm	Millipore	0.0928	0.0942	0.0738	0.0869	
	25mm (Hydophilic) Nylon0.2µm	FT Brand	0.0584	0.0743	0.0876	0.0734	



