



**COMPREHENSIVE CATALOG OF ASEPTIC,
MICROBIOLOGICAL,
CLEAN AND ENVIRONMENTAL CONTROL PRODUCTS**



Wenzhou Tuwang Biotechnology Equipment Co., Ltd. is a national high-tech enterprise and a domestic manufacturer of excellent microbial detection related equipment, instruments and consumables. It provides transfer cabins, hydrogen peroxide sterilizers, sterile inspection isolators, three-in-one isolator manufacturing and other products for biopharmaceutical engineering, and provides comprehensive service providers such as installation and commissioning, testing and verification, training and after-sales service.

Tuwang Biotechnology has always insisted on innovation-driven development. It is one of the earliest manufacturers in China to develop fully enclosed membrane filtration sterile detection devices, vaporized hydrogen peroxide sterilization systems, sterile isolation systems and environmental control detection equipment and consumables, and has realized the automated production of multiple products.

Aseptic isolation system, VHP vaporized hydrogen peroxide sterilizer, glove leak detector, negative pressure biosafety cabin, intelligent homogenizer, microbial limit incubator, bacteria collection incubator, surface contact plate, bacteria collection instrument, microbial limit test system, bacterial culture dish, reusable incubator, open incubator, microporous filter membrane, penicillin mold, cephalosporin mold and other high-tech products have been fully accepted by the market. The company focuses on scientific and technological innovation, and its products are widely used in the detection of drugs and biological products, disease prevention and control, environmental protection, food and cosmetics testing and other fields. The company's various products cover food and drug inspection institutes at all levels, major pharmaceutical companies, drug research institutions and other enterprises and institutions across the country.

Adhere to the business philosophy of "quality, build brand", take root in the field of sterility and microorganisms, and do a good job in the replacement of new and old products. Tuwang Bio continues to meet the growing market demand with rich products and high-quality services.





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Aseptic isolation system

Double-sided Rigid Modular Aseptic Isolator System/Multipurpose Cell Processing Isolator



Technical parameters

Equipment maximum power: ≤3200W	Touch screen size: 12.1-inch industrial control screen	Data tracking: support
Power supply voltage: 220V±22V, 50±1Hz	Humidity resolution: 0.1%PH	Electronic signature: support
Airflow model in isolator cabin: vertical unidirectional flow	Temperature resolution: 0.1°C	Online cabin leak detection: support
Cabin pressure control range: -80 ~ +80Pa adjustable	Wind speed: 0.36 ~ 0.54m/s	Online glove leak detection: support
Operation space: 1790×1050×730mm	Airlock chamber space: 600×580×730mm	Dimensions: 3130×1250×2285mm
Air source: filtered clean compressed air or nitrogen, air source pressure 0.4 ~ 0.6MPa		
Cabin leakage rate: pressure test is carried out at positive pressure of 80Pa, and the overall leakage rate of the isolator cabin is less than 0.5 % vol/hour		

Rigid-wall Aseptic Isolator System



Technical parameters

Touch screen size: 12.1-inch industrial control screen	Power supply voltage: 220V±22V, 50±1Hz	Equipment maximum power: ≤3200W
Cabin pressure control range: -80 ~ 80Pa adjustable	Humidity resolution: 0.1%PH	Temperature resolution: 0.1°C
Isolator cabin airflow model: vertical unidirectional flow	Pressure resolution: 0.1Pa	Wind speed: 0.36 ~ 0.54m/s
Cabin leakage rate: When the pressure test is carried out at a positive pressure of 80Pa, the overall leakage rate of the isolator cabin is less than 0.5% vol/hour		
Air source: filtered clean compressed air or nitrogen, air source pressure 0.4 ~ 0.6MPa		

Double-sided Flexible-wall Aseptic Isolator



Size selection

Power supply voltage: 220VAC/50HZ	Maximum operating power: 2800W	Touch screen size: Siemens 7-inch touch color screen
Cabin pressure control range: -90-90Pa	Sealing: hourly leakage rate ≤0.5%	Pressure resolution: 0.1Pa
Humidity resolution: 0.1%PH	Temperature resolution: 0.1°C	Purification level inside the cabin: Static Class A
Inner diameter of material door: 415mm	Inner diameter of transmission door: 245mm	Exhaust duct diameter: 50mm



Sterilization stand

- +Can adapt to all isolation systems on the market
- +Can be used for sterilization of items inside the isolator
- +Can be used for sterilization of items in sterile rooms and microbiology rooms
- +304 stainless steel material, resistant to VHP, ozone, and formaldehyde disinfection
- +Size: 385 × 245 × 207mm/385 × 245 × 77 mm





VHP Sterile Transfer Chamber

Aseptic transfer chamber

TW-SC800



TW-SC1000

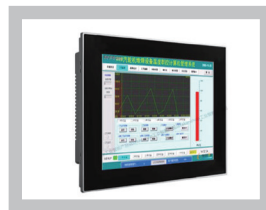


- + The aseptic transfer chamber is automatically controlled by SIEMENS programmable controller (PLC) to control the operation of each stage of the equipment, and the system works stably and reliably
- + During the bio-decontamination and exhaust phase, the air sent into the cabin is filtered through H14-level HEPA filters to prevent the material from being contaminated
- + It has an independent ventilation and exhaust unit, including a fan, a pneumatic butterfly valve and an exhaust pipeline, which can quickly replace the hydrogen peroxide gas in the cabin and prevent it from entering the HVAC system
- + The inlet and outlet are double-door structures with pneumatic sealing, pneumatic locking and double-door interlocking functions in the working state
- + It has a trolley-type material support and its track system inside to facilitate material loading and unloading
- + The system has real-time monitoring functions for temperature, humidity and pressure in the cabin, and can be equipped with hydrogen peroxide gas concentration, dust particles and floating bacteria detection ports
- + Easy to verify, with complete IQ, OQ, PQ documents, and can provide on-site verification
- + It has the function of saving and printing biological decontamination cycle parameter data
- + With electronic signature and data tracking functions

Optional area



● Vaisala HPP272 hydrogen peroxide online high and low concentration monitoring system



● Advantech industrial control screen



● Dräger Polytron7000 Hydrogen peroxide online concentration monitoring system

- ◆ Cabin material: SUS 316 stainless steel
- ◆ Cabin cleanliness: Class A
- ◆ Exhaust interface: DN50 sanitary interface
- ◆ Biological decontamination efficiency: log6 killing rate
- ◆ Biological decontamination cycle time: <60min
- ◆ Hydrogen peroxide gas decontamination cycle interface: DN32 sanitary interface
- ◆ Alarm: high pressure and low pressure alarm/door opening timeout alarm/door lock alarm
- ◆ High efficiency filter level: air supply HEPA: H14 level, exhaust HEPA: H14 level

Optional Area Available Sizes

Dimensions (mm)	Size of workspace (mm)
TW-CS600: 1000×630×1900	600×600×600
TW-CS670: 1250×700×2430	600×670×1700
TW-CS750: 1000×800×2000	650×750×700
TW-CS1000: 1700×1030×1750	1000×1000×1000
TW-CS1200: 1495×1230×1890	800×1200×1200

Transfer Chamber TW-PSC1770YS3

The Transfer Chamber is an auxiliary air purification equipment used in conjunction with the clean factory area and the assembly clean room. It provides a vertical laminar flow local air purification equipment for a sterile and clean working environment. It is mainly suitable for quality inspection between clean rooms and clean rooms or between clean rooms and non- Delivery of clean room quality inspection items. After using the transfer window, it can effectively reduce the number of times of opening the door of the clean room and minimize the pollution of the clean room



Technical Parameter

Power supply voltage: AC220V, 50Hz

Power (single ultraviolet lamp): 8W

Size: 890x830x1770mm(Customizable)



Negative Pressure Weighing Hood with Exhaust System

A negative pressure weighing hood is a localized purification device specifically designed for pharmaceutical manufacturing, microbiological research, and scientific laboratories. It provides a vertical unidirectional airflow, with a portion of clean air circulating within the working area while some is exhausted to the surrounding environment. This creates negative pressure in the workspace to prevent cross-contamination and ensures a highly clean environment in the working area.

Technical parameters

Power supply voltage: AC220V, 50Hz

Battery: 24V, 200Ah

Wind speed: 0.45m/s ± 20%

Maximum power: 50Hz 800W/30Hz 450W

Noise: ≤ 70dB

Dimensions: 1500 × 1500 × 2380mm

Work area size: 1420 × 1880 * × 1000mm

Laminar flow transfer cart

The transfer laminar flow cart is a purification equipment with a built-in power supply, movable, providing a local high-cleanliness working environment and strong versatility. It can be widely used in industries such as electronics, instruments, meters, pharmaceuticals, and bioengineering, and has a good effect on improving process conditions, transferring products, and increasing product quality and yield.

The internal purification air flow pattern of the transfer laminar flow cart is vertical. Air flows from top to bottom through the high-efficiency filter fan unit, passes through the working platform, purifies and protects drugs, and forms an air protection surface between the surrounding of the workbench and the vertical curtain, creating a positive pressure difference between the inside and the outside to prevent air pollution from low-level areas from entering the high-level area inside the cart.



Technical parameters

Power Supply: AC220V, 50Hz

Battery: 24V, 200Ah

Maximum power: 50Hz 800W/30Hz 450W

Box material: SUS 304

Cleanliness level: ISO Class 5 (Class 100)

Average wind speed: 0.36-0.54m/s

Offline usage time: about 7.5 hours at 30Hz, about 4 hours at 50Hz, and about 4 hours at full charge

Dimensions: 1550 × 1140 × 1900mm



Glove integrity tester



**Online
TW-GLD15**

- + Portable structure design, easy to use
- + All stainless steel chassis, easy to clean, suitable for use in clean areas
- + Tilted control panel for easy observation and operation
- + Equipped with test gas
- + Provides result printing function for easy record keeping
- + Controlled by SIEMENS programmable controller (PLC) and touch screen
- + Leakage test of sleeves and gloves can be performed before or after use of the isolator

**Offline
TW-GLD16**



Technical parameters

Input pressure: 0.2MPa~0.6MPa	Inflation pressure: 500~2500Pa
Pressure display resolution: 0.1Pa	Detection accuracy (minimum aperture): 500µm
Testing time: 5-8 minutes	Power supply battery: 220V
Test port specifications: customized (round, oval)	Instrument weight: 13.7kg
Application areas: Used for testing isolators/RABS; System sleeve/glove or integrated glove integrity	

- + Portable structure design, easy to use
- + All stainless steel chassis, easy to clean, suitable for use in clean areas
- + Tilted control panel for easy observation and operation
- + Self-contained test gas
- + Provides result printing function for easy record keeping
- + Controlled by SIEMENS programmable controller (PLC) and touch screen
- + Leakage test of sleeves and gloves can be performed before or after use of the isolator
- + Multi-module can test three gloves simultaneously or individually, convenient to use

**Single module
TW-GLD14**



**Multi-module
TW-GLD17**



Technical parameters

Single module	Power: 550W	Storage data: 180 sets	Weight: 49.7kg	Online/Offline
Multi-module	Power: 550W	Storage data: 60 sets	Weight: 54kg	In-Line
Power supply: 220V, 50Hz		Pressure display resolution: 0.1Pa	Detection accuracy (minimum aperture): 400 µm	
Inflation pressure: 500-1500Pa		Input pressure: 0.2MPa~0.6MPa	Testing time: 5-10 minutes	
Printing function: Needle micro printer		Test port specification: Ø 190mm (other specifications can be customized)		

Group control glove leak detection system V3.0



Main functions

- ◆ Optional 1-6 glove trays
- ◆ Support wireless network printing
- ◆ Continuous work for 8 hours, standby for more than 48 hours
- ◆ Can be connected to customer MEX system
- ◆ Three/four-level user authority design
- ◆ Single machine meets the requirements of Pharmacopoeia, EU, FDA 21CFR PART 11

Technical parameters

Working power supply: 220VAC	Built in battery: 24V lithium-ion battery	Detection accuracy (minimum aperture): 300μm
Test duration: 3-8min	Pressure range: 500-1500Pa	Pressure resolution: 0.1Pa
Noise: ≤ 50dB(A)	Communication method: Bluetooth	Air source: built-in air pump
Sealing pressure: ≤ 200 KPa	History: 40G memory	Glove recognition method: RFID/manual input
Online glove tray: 1-6 pieces	Number of configuration control units: up to 6 test units can be controlled	Control system: computer-controlled

Glove integrity tester TW-minPro

Bluetooth printer (optional)



Technical parameters

Storage data: 128M, about 100,000 groups	Pressure display resolution: 0.1Pa	Detection accuracy (minimum aperture): 400μm
Printing function: Bluetooth/wired dot matrix printing function (optional)	Built-in pressure: 0.2MPa-0.6MPa	Test time: 5-10min
Inflation pressure: 500-1500Pa	Test port specification: Φ190mm (other specifications can be customized)	The host comes with air source and battery
Size: disc diameter 310MM×thickness 160MM	Bluetooth function: test data can be saved and printed via Bluetooth	Weight: 5.4Kg



Dry Fog Hydrogen Peroxide Disinfection System



TW-BOXPRO

Technical Parameter

Working environment temperature: 0 °C~40 °C	Service life: 10 years
Relative humidity of working environment: 1% RH~90% RH	Particle size:< 1-2µm
Transportation and storage temperature: 20 °C~70 °C	Data transmission: via USB cable
Nozzle specification: Bidirectional nozzle, multi-stage atomization air duct	
Size: 250 × 290 × 253mm	Weight: 7.8Kg
Liquid storage tank: external type (optional 250ml, 500ml, 1L, 2.5L, 4L)	

Technical Parameter

Power supply voltage: 220VAC/50HZ	Sterilization volume: 200m ³
Sterilization level/effectiveness: achieve Log6 killing rate	Spray particle size: ≤ 2µm
Sterilizer consumption per cubic meter: 5ml/m ³	Data transmission: via USB cable
Applicable disinfectant: 7.5% hydrogen peroxide/peracetic acid/sporicidal agent	
Liquid storage tank: external type (optional 250ml, 500ml, 1L solution bottles)	
Hydrogen peroxide output method: Two fluid atomizer	Weight: 8.8kg
Dimensions: 370 × 200 × 340mm	



TW-TVHP100PRO



TW-TVHP100PRO (trolley type)

Technical Parameter

Power supply voltage: 220VAC/50HZ	Power: 2500W
Sterilization level/effectiveness: achieve Log6 killing rate	Sterilization volume: 800m ³
Sterilizer consumption per cubic meter: 5ml/m ³	Spray particle size: ≤ 2µm
Hydrogen peroxide output method: Two fluid atomizer	Weight: 53kg
Applicable disinfectant: 7.5% hydrogen peroxide/peracetic acid/sporicidal agent	
Liquid storage tank: external type (optional 250ml, 500ml, 1L, 2.5L, 4L, 5L solution bottles)	

Technical Parameter

Power supply: 220V/50Hz	Power: 1700W
Sterilizer consumption per cubic meter: 6ml/m ³	Particle size: < 0.5µm
Liquid storage tank: built-in 3000ml liquid storage tank	Dosing rate: 12ml/min
Sterilization level/effect: reach Log6 killing rate	Air flow: 32m ³ /h
Hydrogen peroxide output method: flash vaporization	Dimensions: 500×265×370mm
Applicable disinfectants: 7.5%~35% hydrogen peroxide/peracetic acid/sporicide	
Maximum sterilization volume: 300m ³	Chassis material: 304L stainless steel body



TW-V500

Vaporized Hydrogen Peroxide (VHP) Disinfection System



TW-V200B

Technical Parameter

Power supply: 220V/50Hz	Power: 2300W
Sterilization level/effect: reach Log6 kill rate	Sterilizer consumption per cubic meter: 5ml/m ³
Dosing rate: 1~18ml/min	Air flow rate: 80m ³ /h
Maximum sterilization volume: 200m ³	Weight: 85kg
Applicable disinfectant: 7.5%~35% hydrogen peroxide solution	Size: 570 × 770 × 890mm
Liquid storage tank: external type (optional 250ml, 500ml, 1L, 2.5L, 4L)	

Technical Parameter

Power supply: 220V/50Hz	Power: 2800W
Sterilization level/effect: reach Log6 kill rate	Sterilizer consumption per cubic meter: 5ml/m ³
Dosing rate: 1~16ml/min	Air flow rate: 145m ³ /h
Maximum sterilization volume: 500m ³	Weight: 115kg
Applicable disinfectant: 7.5%~35% hydrogen peroxide solution	Size: 630 × 805 × 1050mm
Liquid storage tank: external type (optional 250ml, 500ml, 1L, 2.5L, 4L)	



TW-V500B

Technical Parameter

Power supply: 220V/50Hz	Dosing rate: 10ml/min
Hydrogen peroxide output method: flash vaporization	Power: 1600W
Sterilization level/effect: reach Log6 killing rate	Air flow: 32m ³ /h
Sterilizer consumption per cubic meter: 5ml/m ³	Weight: 45kg
Applicable disinfectants: 7.5%~35% hydrogen peroxide/peracetic acid/sporicide	
Liquid storage tank: external (optional 250ml, 500ml, 1L, 2.5L, 4L solution bottles)	
Dimensions: 450×450×1030mm	



TW-V1000

Technical Parameter

Power supply: 220V/50Hz	Chassis material: 304L stainless steel body
Maximum sterilization volume: 500m ³	Sterilization level/effect: reach Log6 killing rate
Hydrogen peroxide output method: flash vaporization	Dosing rate: 1ml~15ml/min
Data management: password management or level 3 authority	Dimensions: 450×450×1240mm
Data reports: log records, data operation records	Number of gas outlets: 6个
Applicable disinfectants: 7.5%~35% hydrogen peroxide/peracetic acid/sporicide	Power: 2000W
Liquid storage tank: external (optional 250ml, 500ml, 1L, 2.5L, 4L solution bottles)	

TW-V2000





Aseptic Inspection Solution

Scheme Introduction

Sterility testing is carried out in a cleanliness grade A unidirectional air flow area or isolation system. The whole process should strictly comply with aseptic operation to prevent microbial contamination. The cleanliness of the unidirectional air flow area and the work surface must be verified. The sterility test of biological products should be carried out in accordance with the provisions of the "China Biological Products Regulations" on sterility testing. Tuwang Bio has been deeply engaged in sterility testing research for more than ten years, providing a complete set of sterility testing solutions such as sterile isolators, bacteria collectors, and bacteria collection incubators that meet the requirements of the "Chinese Pharmacopoeia", USP, EP, JP, etc. Its products have been widely used in many pharmaceutical companies and laboratories.

Application area

Widely used in sterility testing of sterile preparations, including antibiotics and preparations containing antibacterial ingredients, sterile APIs, large infusions, water injections, sterilized medical devices, sterile water for injection, etc., and can also be used in conjunction with membrane filters for microbial limit testing in the pharmaceutical, food, beverage and other industries.

Linear Clamp Tube Intelligent Sterility Test Pump

This product can be widely used for sterile testing of sterile preparations, including antibiotics and preparations containing antibacterial ingredients, sterile raw materials, infusion solutions, water injections, sterilized medical equipment, sterilized injection water, etc. It can also be used in conjunction with membrane filters for microbial limit testing in industries such as pharmaceuticals, food, and beverages.



TW-APL01



TW-APL02



TW-APL05

Pump head protection	✓	✓	✓
Touchscreen	4.3inch	×	10.1inch
SOP	✓	×	×
Speed knob	✓	✓	×
Electronic signature	✓	×	✓
Temperature and humidity	×	×	✓

Technical Parameter

Power supply: 95-260VAC/50-60Hz

Maximum speed flow rate: $\geq 700\text{ml/min}$

Speed: 0-300rpm

Aerosol collector



TW-ACB08



TW-901B

Verified:

1. Quality management system ISO9001
2. Environmental management system ISO14001
3. Occupational health and safety management system ISO45001



Steritoone


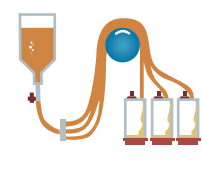

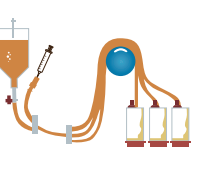

Sterility Test canisters

The sterility test canisters is an accessory consumable for the sterility inspection. It consists of a protective cap, an air filter, a connector, a barrel, a filter membrane, a base, a liquid outlet, and a parallel catheter. After more than 40 processes of careful manufacturing and strict inspection of each process, the product has 100% passed the integrity test. According to the requirements of the quality system certification, quality traceability and continuous quality improvement have been achieved. According to the different properties and packaging of the inspected products, a variety of microporous filter membranes of different materials and structures have been specially selected, and more than 50 kinds of sterility test canisters have been designed and developed, which basically meet the sterility inspection requirements of various inspected products.

Sterility testing is an extremely important step before the release of sterile products. False positive and false negative experimental results, as well as experimental equipment failures and human errors will cause significant losses in time and money to customers and directly affect the laboratory effect of the product. The sterility testing device composed of the TW-series sterility test pump and the sterility test canisters provides a perfect solution. The peristaltic pump of the sterility test pump can safely and evenly transfer the test samples in different packaging forms to the sterility test canisters, making the sterility test results more consistent and reliable.



Usage diagram

 Large volume injections in bottles		 Bottle large volume injection (PVC)		 Viscous liquid medicine (biological products)	
 Powder in glass bottles		 Liquid medicine in soft plastic bags		 Bottled emulsion (oil-based sample)	
 Ampoule filling liquid		 Prefilled syringe		 Freeze-dried powder needle (biological products)	
 Medical equipment (infusion set, blood transfusion set, dialysis tube, intravenous catheter, etc.)		 Viscous liquid medicine (biological products)		 Antibiotic powder in bottles	
 Ampoules filled with antibiotic liquid		 Bottled strong antibacterial and insoluble powder			

Schematic diagram of each canister

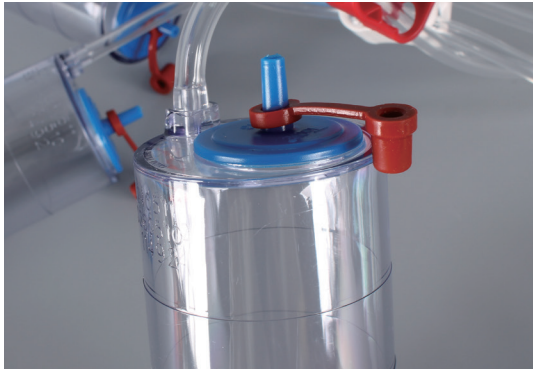
Bacterial culture:
Fill with FTM medium and place in an incubator at 35°C Cultivate for 14 days



Mold culture:
Pour into TSB medium and place in an incubator at 28°C for 14 day

Positive control:
Add positive bacteria to the tank filled with FTM culture medium to observe whether there are antibacterial components

Negative control:
Directly inject the culture medium to observe whether bacteria grow



The protective cap and hanging ring are integrated, so there's no need to worry about losing them

The newly designed integrated hanging ring protective cap, which is installed with the upper cover of the air filtration of the cup body of the bacteria collecting culture, completely avoids the possible loss of the protective cap due to the lack of placement, which may affect the interruption of the experiment. It has automatic popping function under high pressure, which fully ensures the smooth experiment process and the safety of the operator.

Multiple color options, not just blue

Add purple, green, two new color matching. Meet the needs of many laboratories, can independently allocate experimental needs according to color matching, no longer worry about confusion.



New upgraded packaging

While ensuring the sterilization effect, sterilization residue is minimized to make the experiment both safe and secure.

- + Applicable to organic solvents such as ethanol
- + Specializing in ethylene oxide sterilization or irradiation sterilization
- + Transparent blister box packaging, in line with international standards
- + Ultrasonic welding process, smooth and firm welding, to achieve the best sealing performance
- + The high elastic pump tube made of special materials is durable in tension, wear resistance and pressure resistance, which can ensure the smooth completion of the maximum inspection amount filtration
- + The use of medical dialysis packaging imported from the United States to ensure the product aseptic performance, can quickly decompose ethylene oxide, reduce ethylene oxide residue
- + Filter aperture: 0.45 μ m, 0.22 μ m(customizable)
- + Fixed Robert clip, color matching
- + Fixed filter cap plug to avoid risk of contamination

110 Illustration



220 Illustration



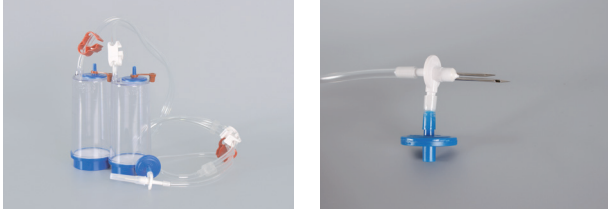
330 Illustration



402 Illustration



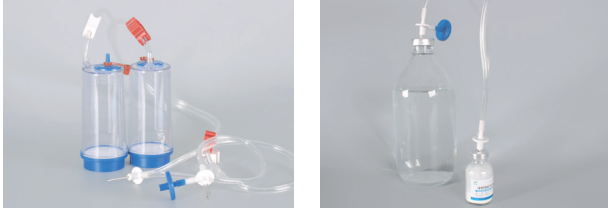
PY Series (Optional 110, 220, 330, 402)



PVC Series (Optional 220, 330, 402)



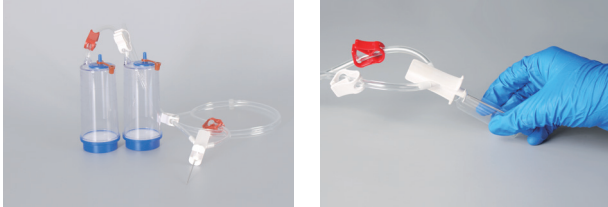
DGB Series (Optional 220, 330, 402)



SDY Series (Optional 220, 330, 402)



APY Series (Optional 220, 330, 402)



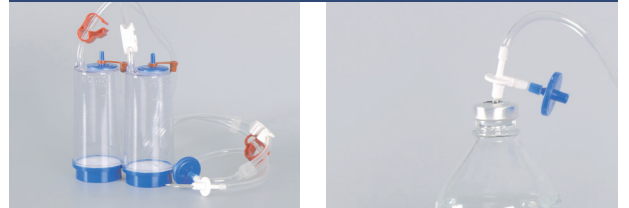
PFS Series (Optional 220, 330, 402)



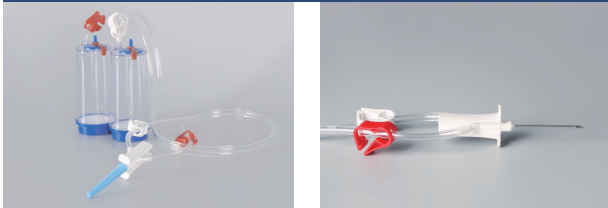
YLQ Series (Optional 220, 330, 402)



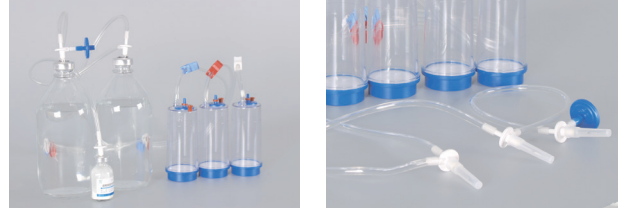
KSF Series (Optional 110, 220, 330, 402)



KAPY Series (Optional 220, 330, 402)



NKF Series (Optional 220, 330, 402)



KDGB Series (Optional 220, 330, 402)



Z-VS Series (Optional 220, 330, 402)



CN Series (Optional 220, 330, 402)



DCN Series (Optional 220, 330, 402)



Comparison table of type and use of sterility test canisters

Applicable product type	Single bag EO sterilization	Double bagging EO sterilization	Double boxed EO sterilization	Double bagging Irradiation sterilization	Double boxed Irradiation sterilization	Peculiarity
Large volume injections in bottles	PY110	/	PY110 B	PY110 D	PY110 GD	Adopt side hole double core needle, a double needle design, frequent insertion and replacement of bottles without plugging, continuous operation is more convenient
	PY220	D-PY220	PY220 B	PY220 D	PY220 GD	
	PY330	D-PY330	PY330 B	PY330 D	PY330 GD	
	PY402	D-PY402	PY402 B	PY402 D	PY402 GD	
	PY220-ST	/	/	/	/	One-piece needle design, not easy to bend during operation, more suitable for vials below 10ml
Large volume injections in bottles (PVC packing)	PVC220	D-PVC220	PVC220 B	PVC220 D	PVC220 GD	Equipped with large diameter oblique hole needle to prevent needle clogging, ensure full filtration
	PVC330	D-PVC330	PVC330 B	PVC330 D	PVC330 GD	
	PVC402	D-PVC402	PVC402 B	PVC402 D	PVC402 GD	
Powder in glass bottles	DGB220	D-DGB220	DGB220 B	DGB220 D	DGB220 GD	Add a dissolving needle, cleverly solve the completely closed solution, and realize the dissolution and filtration at one time
	DGB330	D-DGB330	DGB330 B	DGB330 D	DGB330 GD	
	DGB402	D-DGB402	DGB402 B	DGB402 D	DGB402 GD	
Liquid medicine in soft plastic bags	SDY220	D-SDY220	SDY220 B	SDY220 D	SDY220 GD	Equipped with large diameter oblique hole needle to prevent needle clogging, ensure full filtration
	SDY330	D-SDY330	SDY330 B	SDY330 D	SDY330 GD	
	SDY402	D-SDY402	SDY402 B	SDY402 D	SDY402 GD	
Ampoule filling liquid	APY220	D-APY220	APY220 B	APY220 D	APY220 GD	Elongated sampling needle, no sample transfer, fast transfer of samples
	APY330	D-APY330	APY330 B	APY330 D	APY330 GD	
	APY402	D-APY402	APY402 B	APY402 D	APY402 GD	
Prefilled syringe	PFS2	D-PFS2	PFS2 B	PFS2 D	PFS2 GD	Newly designed interface, closed docking with pre-loaded syringe, low sampling risk, interface protection function, safer operation, more reliable detection
	PFS3	D-PFS3	PFS3 B	PFS3 D	PFS3 GD	
	PFS4	D-PFS4	PFS4 B	PFS4 D	PFS4 GD	
Medical equipment (infusion set, blood transfusion set, dialysis tube, intravenous catheter, etc.)	YLQ220	D-YLQ220	YLQ220 B	YLQ220 D	YLQ220 GD	It is equipped with a special interface to connect a variety of equipment to be tested to ensure a fully enclosed filtration test
	YLQ330	D-YLQ330	YLQ330 B	YLQ330 D	YLQ330 GD	
	YLQ402	D-YLQ402	YLQ402 B	YLQ402 D	YLQ402 GD	
Liquid antibiotic	KSF110	D-KSF110	KSF110 B	KSF110 D	KSF110 GD	Extended hose can be used with the shaker
	KSF220	D-KSF220	KSF220 B	KSF220 D	KSF220 GD	
	KSF330	D-KSF330	KSF330 B	KSF330 D	KSF330 GD	
	KSF402	D-KSF402	KSF402 B	KSF402 D	KSF402 GD	
Ampoules filled with antibiotic liquid	KAPY220	D-KAPY220	KAPY220 B	KAPY220 D	KAPY220 GD	The sample transfer and filtration can be integrated operation, eliminating other transfer operations
	KAPY330	D-KAPY330	KAPY330 B	KAPY330 D	KAPY330 GD	
	KAPY402	D-KAPY402	KAPY402 B	KAPY402 D	KAPY402 GD	
Bottled strong antibacterial and insoluble powder	NKF220	D-NKF220	NKF220 B	NKF220 D	NKF220 GD	Three-pin base design, can dissolve, dilute, redissolve, filter, rinse integrated operation, can reduce the concentration of drugs, reduce the adsorption of antibacterial ingredients
	NKF330	D-NKF330	NKF330 B	NKF330 D	NKF330 GD	
	NKF402	D-NKF402	NKF402 B	NKF402 D	NKF402 GD	
Antibiotic powder in bottles	KDGB220	D-KDGB220	KDGB220 B	KDGB220 D	KDGB220 GD	Double pin base design, can dissolve, dilute, filter, rinse integrated operation, without other transfer operations
	KDGB330	D-KDGB330	KDGB330 B	KDGB330 D	KDGB330 GD	
	KDGB402	D-KDGB402	KDGB402 B	KDGB402 D	KDGB402 GD	

Difficult to filter water-based test products or bottled	EVS2	D-EVS2	EVS2 B	EVS2 D	EVS2 GD	Hydrophobic filter membrane is selected to ensure smooth and full filtration of emulsion test products
	EVS3	D-EVS3	EVS3 B	EVS3 D	EVS3 GD	
	EVS4	D-EVS4	EVS4 B	EVS4 D	EVS4 GD	
	VS3-P	/	/	/	/	
Viscous liquid medicine(biological products)	CN220	D-CN220	CN220 B	CN220 D	CN220 GD	The selection of enhanced special microporous filter membrane is more reliable and faster
	CN330	D-CN330	CN330 B	CN330 D	CN330 GD	
	CN402	D-CN402	CN402 B	CN402 D	CN402 GD	
Freeze-dried powder needle(biological products)	DCN220	D-DCN220	DCN220 B	DCN220 D	DCN220 GD	The dissolution and transfer operation uses the enhanced special microporous filter membrane, which is more reliable and faster
	DCN330	D-DCN330	DCN330 B	DCN330 D	DCN330 GD	
	DCN402	D-DCN402	DCN402 B	DCN402 D	DCN402 GD	
Special pump line	BG110	/	/	/	/	Use medical grade PVC, wear resistance and pressure resistance; Paper and plastic packaging is used to ensure the sterilization effect of products, and can quickly parse ethylene oxide and reduce the residue of ethylene oxide. CE standard ethylene oxide sterilization was introduced
	BG220	/	/	/	/	
	BG330	/	/	/	/	
Special for cans	FBG220	/	/	/	/	Use medical grade PVC, wear resistance and pressure resistance; Paper and plastic packaging is used to ensure the sterilization effect of products, and can quickly parse ethylene oxide and reduce the residue of ethylene oxide. CE standard ethylene oxide sterilization was introduced
Dissolved module	DO2	/	/	/	/	Powder needle dissolves assembly

Packaging Type Comparison Chart



Single-layer blister box packaging



Double-layer blister box packaging



Single-layer soft plastic bag



Double-layer soft plastic bag



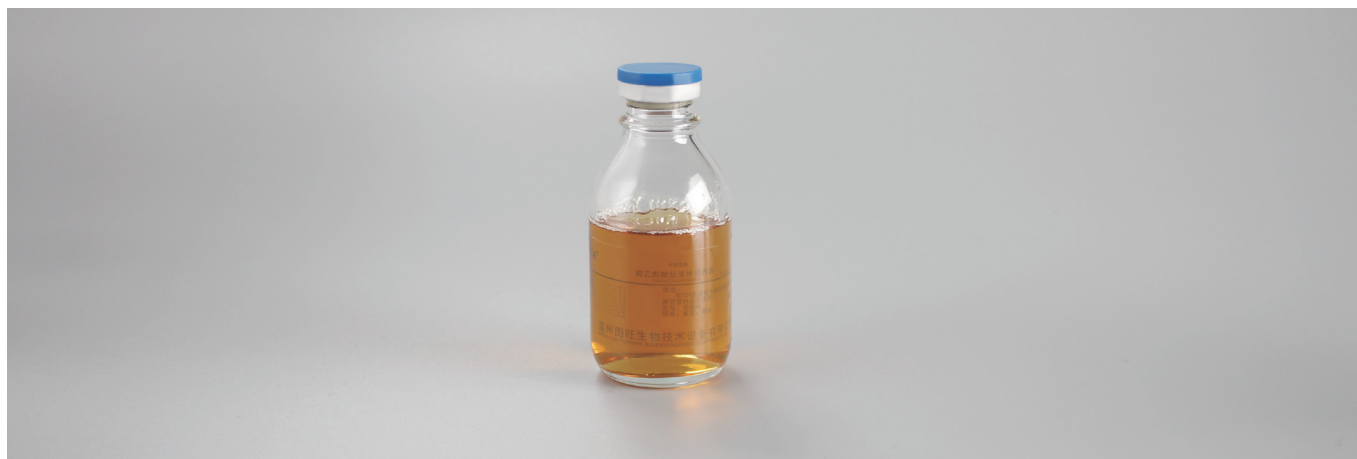
Single layer bag



Double bagging



Prefilled Liquid Medium



Solid medium

Product No.	Product name	Specifications
6001	Pancreatic casein soy peptone agar medium (TSA)	100ml/Bottle , 50Bottle/Box 250ml/Bottle , 40Bottle/Box 300ml/Bottle , 20Bottle/Box 500ml/Bottle , 20Bottle/Box
6002	Sabouraud Dextrose Agar Medium (SDA)	
6003	Rose Bengal Medium (RA)	
6004	R2A agar medium	
6005	Nutrient agar (NA)	
6006	MacConkey agar medium (MCA)	
6007	Antibiotic testing medium (ABA)	
6008	Mannitol salt agar (MSA)	
6009	Xylose lysine deoxycholate agar medium (XLD)	
6010	Hexadecyltrimethylammonium bromide agar medium (CEA)	

Liquid culture medium

Product No.	Product name	Specifications
6101	Pancreatic casein soy peptone liquid medium (TSB)	100ml/Bottle , 50Bottle/Box 250ml/Bottle , 40Bottle/Box 300ml/Bottle , 20Bottle/Box 500ml/Bottle , 20Bottle/Box 5ml per piece, 10 pieces per box
6102	Shashi glucose liquid culture medium (SDB)	
6103	Fluid thioglycollate medium (FTM)	
6104	MacConkey liquid culture medium (MCB)	
6105	0.1% sterile peptone aqueous solution	
6106	PH 7.0 sterile sodium chloride peptone buffer solution	
6107	0.5% glucose broth medium	
6108	Liquid A (0.1% animal tissue pepsin digest)	
6109	Bile lactose culture medium (BL)	
6110	Intestinal bacterial enrichment liquid medium (EEB)	
6111	RV Salmonella Enrichment Liquid Culture Medium	
6112	TAT meat soup	
6113	MUG rapid detection of Escherichia coli reagent	



Microbial detection system solution

Scheme Introduction

Microbial testing is a testing method that applies the theory and methods of microbiology to examine the types, quantities, properties, and impact on human health of microorganisms in products such as food and drugs, in order to determine whether the product meets quality standards; The Tuwang Biological Microbial Detection System is based on membrane filtration method and consists of a series of microbial detection equipment and consumables such as a microbial detector or filter bracket, a microbial detection dedicated pump, a filter cup, a filter membrane, etc.

Application area

Pharmaceutical: Microbial limit testing for purified water, injection water, and other drugs and preparations

Disease control: Total bacterial count and pathogenic bacteria testing of air conditioning condensate water, drinking water and other water quality

Food: Total bacterial count testing for beverages, mineral water, and purified water

Chemical industry: water sample testing for various microorganisms that need to be tested



Microbial filtration built-in test pump



TW-303D



TW-302M



TW-302C

Can adapt to a variety of filter funnels by replacing the filter head



Using European imported diaphragm pump
The instrument can directly discharge liquid, no need for filter bottle, easy to operate



Multiple pump head options
Use with a variety of consumables, quick disassembly and assembly, and wet heat sterilization



Direct discharge
No need to equip with suction bottle, improve experimental efficiency

Technical Parameter

Single-pump-head Series	Dual-pump-head Series	Triple-pump-head Series	Quadruple-pump-head Series	Sextuple-pump-head Series
Size: 150×239×120mm	245×239×120mm	350×239×120mm	455×239×120mm	650×239×120mm
Power supply: 220VAC/50Hz	Power: 60W	Traffic: ≥ 700mL/min		Noise: ≤ 65dB (A) (load)
Applicable consumables: S60 incubator, F100B/F47-3 filter cup, F250B filter cup, M50B filter cup, M250B-3 series filter cup, ST100 filter cup				

Microbial filtration manifold

TW-ST3C



TW-ST6C



- + Straight tube design, faster filtration speed
- + The body is made of 304 stainless steel
- + The filter bracket can be sterilized by wet heat as a whole
- + Three/six pump heads can be operated and controlled independently
- + The pump head can be quickly sterilized using a flame spray gun for continuous experimental operation
- + It needs to be used with an oil-free vacuum pump for experiments

- Triple/six-unit bracket available
- The whole can be sterilized by wet heat
- Manually control the discharge
- The number of pump head filtration can be controlled

Technical Parameter

Model	Filter membrane diameter	Weight	Size	Filter head configuration	Filter head installation	Use consumables
TW-ST3C	Diameter 47mm	3.66Kg	394×164×126mm	Three heads	Non removable	ST100
TW-ST6C		5.3Kg	709×164×126mm	Six heads		

Microbial filter funnel

TW-ST100



- + Design base. Effectively drain liquid and reduce residue
- + The membrane notch design makes it easier to take and apply the membrane
- + The base, filter cup and filter membrane can be purchased separately
- + Non-contact operation, the filter pump head does not need to be burned and sterilized



Oil-free vacuum pump

TW-18Y

- + High-performance diaphragm pump, direct drainage, no need for suction bottle
- + Faster filtration speed
- + Button switch control of indicator light
- + Used with microbial filtration bracket
- + 304 material body is corrosion-resistant



Technical Parameter

Power supply: 220VAC/50Hz	Power: 30W	Flow rate: 1L/min
Vacuum degree:- 80kPa (relative pressure) 20kPa (absolute pressure)	Size: 220 × 150 × 145mm	Weight: 2.75kg

TW-50L



- + The vacuum gauge displays the working status in real time
- + High-performance air pump, connected to the suction bottle for drainage
- + Can be used as a vacuum device
- + Used with microbial filtration support

Technical Parameter

Power supply: 220VAC/50Hz	Power: 550W	Flow rate: 50L/min
Vacuum degree:- 80kPa (relative pressure) 20kPa (absolute pressure)	Size: 350×235×255mm	Weight: 14kg

Intelligent homogenizer

- + Full silicone seal, suitable for high temperature sterilization, no waste, no pollution
- + The integrated design of the stirring blade and the cup body ensures airtightness and no leakage
- + The homogenization cup can be disassembled into small parts for cleaning
- + The noise reduction process is used for silent processing, and the noise is low
- + One minute is a working period, no setting is required
- + The use of micro high-power high-speed brushless motor works, the preparation of the test solution is fast, the work intensity is reduced, and the scope of application of the inspection product is wide
- + The unique integrated stirring blade design makes the homogenization uniform and practical
- + It is equipped with a leak-proof device, which is safe and reliable
- + The cup seat is polished with stainless steel for easy cleaning
- + The matching homogenization cup model is TW-701-BT

TW-701



Technical Parameter

Power supply: 220VAC/50Hz	Power: 300W	Timing: 60s/time
Speed: 2000r/min~20000r/min	Size: 280×200×180mm	Weight: 5.0kg

Operation process

F47 filter funnel



1. Place the filter membrane



2. Install the filter funnel, add the sample and filter

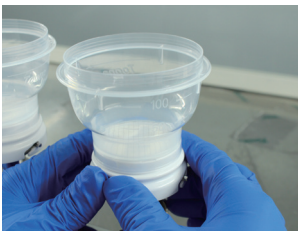


3. Remove the filter funnel



4. Count after the membrane is attached

ST100 filter funnel



1. Install the filter funnel



2. Add the test sample and filter



3. Remove the funnel body



4. Count after the membrane is attached

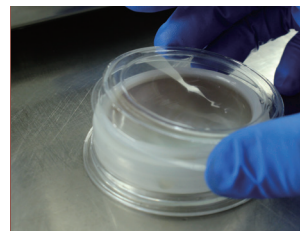
S60 filter funnel



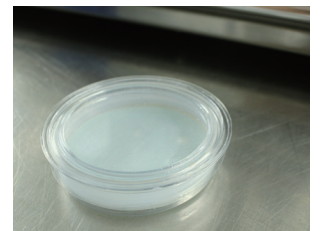
1. Install the incubator, add the sample and filter



2. Pour the incubator and pour the culture medium



3. Cover the funnel lid to form a culture box

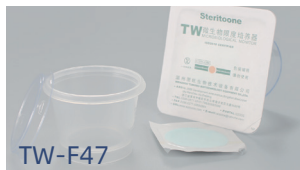


4. Count after film culture

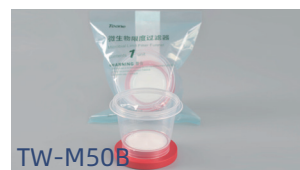
Microbial filtration consumables



TW-F47-3



TW-F47



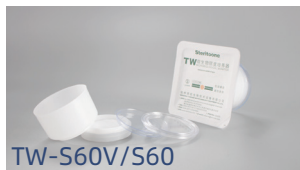
TW-M50B



TW-M250B-3



TW-ST100



TW-S60V/S60



TW-M50



TW-SD220

Microbial filtration funnels parameter comparison table

Consumable name	Model	Material/Capacity	Filter membrane	Package	Notes
Disposable microbial filter cup	TW-F47-3	PP/100ml	No, an additional 47mm filter membrane is required	3 pieces/pack, 480 pieces/box	Aseptic packaging
	TW-F47-10		No, an additional 47mm filter membrane is required	500 pieces/box	
	TW-F47		0.45µm, 47mm, N66 Filter membrane	120 pieces/box (including film)	
	TW-M50B	0.45µm, 47mm, N66 Filter membrane	125 pieces/box (including film)		
	TW-M250B-3	PP/250ml	0.45µm, 47mm, N66 Filter membrane	192 pieces/box	
	TW-F47R-6		0.45µm, 47mm, N66 Filter membrane	264 pieces/box	
	TW-S60V/S60	PE/100ml	0.45µm, 60mm, N66 Filter membrane	120 pieces/box (including film)	
	TW-ST100	PP/100ml	0.45µm, 47mm, N66 Filter membrane	100 pieces/box	
	TW-M50		0.45µm, 50mm, N66 Filter membrane	120 pieces/box (including film)	
Repeatedly using microbial filter cups	TW-F100B-10	PP/100ml	No, an additional 47mm filter membrane is required	600 pieces/box	Non sterile packaging
	TW-F250B-6	PP/250ml	No, an additional 47mm filter membrane is required	264 pieces/box	
	TW-F250		No, an additional 47mm filter membrane is required	480 pieces/box	
	TW-F100	PP/100ml	No, an additional 50mm filter membrane is required	450 pieces/box	
	TW-3B			50 pieces/box	
	TW-III				
	TW-3N				

Instrument Name	Model	Adapt to pump head model	Adapt to consumable models	Notes
Microbial filtration manifold	TW-ST3C/6C	Stainless steel filter kit ST100B	TW-ST100	/
Microbial filtration test devices	TW-202C/302C/402C/602C /202M/302M/402M/602M /303M	FBT1001	TW-F47-3	02C/02M series Replace the pump head of the micro limiter Can be adapted to multiple filter cups
			TW-F47-10	
			TW-F47	
			TW-F100B-10	
			TW-F47R-6	
			TW-F250B-6	
			TW-M50B	
		TW-M250B-3		
		S60BT1002	TW-S60V/S60	
		TW-303C/606C	FBT1007	
		TW-M50		
TW-303B/606B	FBT1008	TW-F250		
TW-303/606/303F	/	TW-3B		
		TW-3N		
TW-303N/606N	/	TW-3N		
re-use sterility test canister	Complete series of sterility test canisters	/	TW-III	

Microporous filter membrane



Material	Name	Aperture (μm)	Diameter (mm)	Item number	specifications	Characteristics and application
MCE	Sterile filter membrane	0.45	47	1001	100 Sheets/box	Large circulation and fast filtration. Suitable for sterile or microbiological limit testing of water samples and other easily filtered samples. It can also be used for the removal of liquid particles and the reduction of biological load.
			50	1002		
		0.22	47	1003		
			50	1004		
	Microporous filter membrane	0.45	47	1005		
			50	1006		
		0.22	47	1007		
			50	1008		
N66	Sterile filter membrane	0.45	47	1009	100 Sheets/box	Has better membrane strength and chemical compatibility, easy desorption. Suitable for sterility or microbial limit testing of difficult-to-filter test products and antibacterial test products, and can also be used for liquid particle removal and bioburden reduction.
			50	1010		
		0.22	47	1011		
			50	1012		
	Microporous filter membrane	0.22	47	1013		
			50	1014		
		0.45	47	1015		
			50	1016		
PVDF	Sterile hydrophilic filter membrane	0.45	47	1017	100 Sheets/box	Good chemical compatibility and permeability, fast filtration. Suitable for sterility or microbial limit testing of water samples and other easy-to-filter test products. Can also be used for liquid particle removal and bioburden reduction.
			50	1018		
		0.22	47	1019		
			50	1020		
	non-sterile Hydrophilic microporous membrane	0.45	47	1021		
			50	1022		
		0.22	47	1023		
			50	1024		
						Excellent chemical compatibility; suitable for microbial testing of organic solvents and strongly antibacterial products, and can also be used for particulate removal and bioburden reduction of organic solvents.

Disposable pre-filled culture dishes



Item number	Name	TW-90CY	TW-75CY	TW-55CY
7001	Pancreatic casein soy peptone agar medium (TSA)	TW-TSA90CY	TW-TSA75CY	TW-TSA55CY
7002	Pancreatic casein soy peptone agar medium (containing penicillin enzyme)	TW-TSAQ90CY	TW-TSAQ75CY	TW-TSAQ55CY
7003	Pancreatic casein soy peptone agar medium (cephalosporinase)	TW-TTSA90CY	TW-TTSA75CY	TW-TTSA55CY
7004	Plate Counting Agar (PCA)	TW-PCA90CY	TW-PCA75CY	TW-PCA55CY
7005	Shashi glucose agar medium (SDA)	TW-SDA90CY	TW-SDA75CY	TW-SDA55CY
7006	Sabouraud glucose agar medium (containing chloramphenicol)	TW-SDAL90CY	TW-SDAL75CY	TW-SDAL55CY
7007	Rose Red Sodium Agar Medium (RA)	TW-RA90CY	TW-RA75CY	TW-RA55CY
7008	Rose bengal medium	TW-MJL90CY	TW-MJL75CY	TW-MJL55CY
7009	R2A agar medium	TW-R2A90CY	TW-R2A75CY	TW-R2A55CY
7010	Xylose lysine deoxycholate (XLD) agar	TW-XLD90CY	TW-XLD75CY	TW-XLD55CY
7011	Purple Red Bile Salt Glucose Agar Medium (VRBGA)	TW-VRBGA90CY	TW-VRBGA75CY	TW-VRBGA55CY
7012	MacConkey (MCA) agar	TW-MAC90CY	TW-MAC75CY	TW-MAC55CY
7013	Cetyltrimethylammonium bromide agar medium (CA)	TW-CA90CY	TW-CA75CY	TW-CA55CY
7014	Mannitol Sodium Chloride Agar Medium (MSA)	TW-MSA90CY	TW-MSA75CY	TW-MSA55CY
7015	Columbia Agar Base	TW-GLBY90CY	TW-GLBY75CY	TW-GLBY55CY
7016	Candida Chromogenic Medium	TW-NZ90CY	TW-NZ75CY	TW-NZ55CY
7017	SS Agar	TW-SS90CY	TW-SS75CY	TW-SS55CY
7018	Crystal Violet Neutral Red Bile Salt Agar (VRBA)	TW-VRBA90CY	TW-VRBA75CY	TW-VRBA55CY
7019	Intestinal bacteria counting agar (VRBDA/VRBGA)	TW-VRBDA90CY	TW-VRBDA75CY	TW-VRBDA55CY
7020	Nutrient agar (NA)	TW-NA90CY	TW-NA75CY	TW-NA55CY
7021	HE agar	TW-HE90CY	TW-HE75CY	TW-HE55CY
7022	Mannitol egg yolk polymyxin (MYP) agar	TW-MYP90CY	TW-MYP75CY	TW-MYP55CY
7023	Chromogenic Enterbacter Sakazakii Agar	TW-BQC90CY	TW-BQC75CY	TW-BQC55CY
7024	Bottom layer culture medium	TW-DC90CY	TW-DC75CY	TW-DC55CY
7025	Pancreatic casein soy peptone agar medium (containing Tween 80 and lecithin)	TW-TSA80R90CY	TW-TSA80R75CY	TW-TSA80R55CY
7026	Shashi glucose agar medium (containing gentamicin)	TW-SDAQ90CY	TW-SDAQ75CY	TW-SDAQ55CY

Reusable culture dishes



- + Mechanical properties: high strength, fatigue resistance, dimensional stability, small creep (very little change under high temperature conditions)
- + Heat aging resistance: The enhanced UL temperature index reaches 120~140°C (strong outdoor long-term aging resistance)
- + Solvent resistance: no stress cracking
- + High strength and elastic modulus, high impact strength, wide operating temperature range
- + Polycarbonate is not resistant to ultraviolet light and strong alkali
- + PC material is flame retardant and antioxidant

Name	Model	specifications	Height	Material	Set/bag	Set/box
Petri dish	TW-90B/E	90mm	15mm	PC	10	500
Bacterial culture dish (with scale)	TW-90BK30	90mm	14mm			
Floating bacterial culture dish	TW-75B	75mm	22mm			
Surface contact disc	TW-55B	55mm	15mm			

Disposable culture dish



- + Four non-separated diameter sizes are available: 55, 75, 90 and 150mm can be used for bacterial culture
- + The product is crystal clear, uniform in thickness, and the bottom of the dish is flat and smooth without distortion, making quantitative analysis more accurate
- + The strength of the dish cover and the bottom of the dish are both enhanced, while improving the flatness and increasing the adsorption of the inner wall of the culture dish
- + The toothed ring design on the side of the dish is easy to hold and reduce contamination
- + The specially designed culture dish cover is conducive to gas exchange
- + The stacking ring makes stacking and handling easier
- + γ irradiation sterilization, no DNA enzyme, no RNA enzyme, no pyrogen products are available for purchase

Name	Model	specifications	Height	Sterilization method	Material	Set/bag	Set/box
Cell culture dish	TW-150C	150mm	15mm	EO	PC	10	110
Bacterial culture dish	TW-90C	90mm	14mm				500
Planktonic culture dish	TW-75C	75mm	22mm				1000
Surface contact dish	TW-55C	55mm	15mm				



Sedimentation Plate Rack

*The height is from the upper tray welding mouth to the ground height, and the size can be customized according to needs



Technical Parameter

Model	TW-ZJ1001	TW-ZJ1002	TW-ZJ1003	TW-ZJ1004	TW-ZJ1005
Upper and lower diameter	120/219mm	120/165mm	219mm	120/219mm	120mm/219mm
Height	800mm	800mm	800mm	600-1000mm(Elevatable)	890mm
Material	304				
Model	TW-ZJ1006	TW-ZJ1007	TW-ZJ1008	TW-ZJ1009	TW-ZJ1010
Upper and lower diameter	219/230mm	120/120mm	113×113×15/200mm	305×215×15/300mm	219mm
Height	800mm	800mm	800mm	1200mm	870mm
Material	304				

Aseptic sampling bag



Item number	Name	Number/Specification/Thickness	Material	Sterilization method	PCS
5001	Aseptic self sealing bag	0/40×60mm/0.12mm	PE	EO/Radiation Sterilization	10
5002		1/50×70mm/0.12mm			
5003		2/60×80mm/0.12mm			
5004		3/70×100mm/0.12mm			
5005		4/80×120mm/0.12mm			
5006		5/100×150mm/0.12mm			
5007		6/140×160mm/0.12mm			
5008		7/150×220mm/0.12mm			5
5009		8/180×260mm /0.12mm			
5010		9/220×320mm/0.12mm			
5011		10/240×260mm/0.12mm			
5012		11/300×300mm/0.12mm			
5013		12/380×530mm/0.12mm			
5014		13/400×600mm/0.12mm			
5015	14/500×700mm/0.12mm				
5016	Aseptic dialysis bag	180 × 360mm (suitable for 90mm culture dishes)	Paper plastic	EO	10
5017	(Self adhesive)	135 × 270mm (suitable for 55mm surface contact disc)			
5018	Anaerobic culture bag	2.5L	PE	/	10
5019	Aseptic homogeneous bag	175×300mm			100
5020	Aseptic water sample bag	500ml	PET/PE	/	5
5021	Aseptic vacuum bag	185*340mm			10
5022		145*270mm	PE	Radiation sterilization	5
5023	Aseptic sampling bottle	50ml			2
5024		250ml			



Based on the local market and looking to the world



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