Technical Parameters

Physicochemical property

Test Item	Test Standard	Test Results
Connection firmness	Internal Method	Compliance
Heat-sealing strength	Invitro cytotoxicity	Compliance
Integrity testing	ASTM F2095-01	Compliance
Drop resistance test	ASTM-D4169	Compliance
Physical and chemical properties	USP<661.2>	Compliance
TOC test	USP<661.2>	Compliance

Biological performance

Test Item	Test Standard	Test Results
Bacterial endotoxin	USP<85>	Compliance
In vitro cytotoxicity	USP<87>	Compliance
In vivo cytotoxicity	USP<88>	Compliance
Hemocompatibility	ASTM F756	Compliance
Heat source test	USP<151	Compliance

Other properties

Test Item	Test Standard	Test Results
Insoluble particulate	USP<788>	Compliance
Extractable study	USP<665><1665>、BPOG	Compliance
Chemical compatibility	ASTM D543	Compliance

Standard Bag Ordering Information

Cat. No.	Capacity	Membrane Material	Inlet Tubing	Outlet Tubing	Sampling Tubing	Sterile	Qty./Pack	Qty./Pack
CSP090500	500 mL	External membrane materials	26 cm TPE thermoplastic tubing ID 1/4" × OD 3/8", Luer male taper + Female plug		4.5 cm TPE thermoplastic tubing ID 1/4" × OD 3/8", needle sampling port + silicone sleeve	Y	5	25
CSP091500		Domestic membrane materials				Y	5	25
CSP090102	2 L	External membrane materials	50 cm TPE thermoplastic tubing ID 3/8" × OD 5/8", MPC Male + Female plug	50 cm TPE thermoplastic tubing ID 3/8" × OD 5/8", MPC Female + Male plug	10 cm TPE thermoplastic tubing ID 1/4" × OD 3/8", female Luer one-way sampling port	Y	1	20
CSP091102		Domestic membrane materials				Y	1	20
CSP090003	3 L	External membrane materials	50 cm TPE thermoplastic tubing ID 3/8" × OD 5/8", MPC Male + Female plug	50 cm TPE thermoplastic tubing ID 3/8" × OD 5/8", MPC Female + Male plug	10 cm TPE thermoplastic tubing ID 1/4" × OD 3/8", female Luer one-way sampling port	Y	1	20
CSP091003		Domestic membrane materials				Y	1	20
CSP090001	10 L	External membrane materials	50 cm TPE thermoplastic tubing ID 3/8" × OD 5/8", MPC Male + Female plug	50 cm TPE thermoplastic tubing ID 3/8" × OD 5/8", MPC Female + Male plug	10 cm TPE thermoplastic tubing ID 1/4" × OD 3/8", female Luer one-way sampling port	Y	1	5
CSP091001		Domestic membrane materials				Y	1	5
CSP090002	20 L	External membrane materials	50 cm TPE thermoplastic tubing ID 3/8" × OD 5/8", MPC Male + Female plug	50 cm TPE thermoplastic tubing ID 3/8" × OD 5/8", MPC Female + Male plug	10 cm TPE thermoplastic tubing ID 1/4" × OD 3/8", female Luer one-way sampling port	Y	1	5
CSP091002		Domestic membrane materials				Y	1	5
CSP090005	50 L	External membrane materials	50 cm TPE thermoplastic tubing ID 3/8" × OD 5/8", MPC Male + Female plug	50 cm TPE thermoplastic tubing ID 3/8" × OD 5/8", MPC Female + Male plug	10 cm TPE thermoplastic tubing ID 1/4" × OD 3/8", female Luer one-way sampling port	Y	1	5
CSP091005		Domestic membrane materials				Y	1	5

For other specifications of bag sizes or tubes, please contact us for customized services.

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2D Single-Use Storage Bags

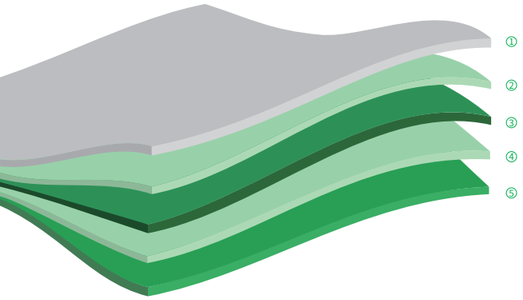
Guangzhou Jet Bio-Filtration Co.,Ltd.

Membrane Material

Jet Biofil's 2D Single-Use Storage Bags are made from multi-layer co-extruded films that comply with the USP Class VI standards, both External and domestic, as raw materials. Both membrane materials have exceptional barrier performance and tensile strength, making them highly resistant to chemicals and biocompatible, which ensures the safety of biopharmaceutical liquids.

Characteristics of Membrane Materials

- Ultra-low density polyethylene (ULDPE) liquid contact layer with excellent physical strength and chemical compatibility
- Extremely low extractable level for biological safety of the process
- Tolerable to most chemicals and polar solvents (alcohols, esters)
- Good resistance to non-polar solvents (hydrocarbons, aromatic hydrocarbons, chlorinated hydrocarbons) at high temperatures
- High transparency, facilitating auxiliary process judgment
- Animal-derived-component-free (ADCF)

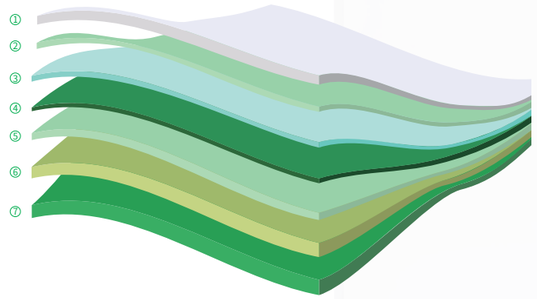


External membrane materials

Layer	Raw Material Name	Thickness	Total Thickness of Individual Layer
① Protective layer	Low-density polyethylene (LDPE)	50μm	320μm
② Gluing Layer	TIE	10μm	
③ Barrier layer	Ethylene-vinyl alcohol copolymer (EVOH)	20μm	
④ Gluing Layer	TIE	10μm	
⑤ Liquid contact layer	Ultra low density polyethylene (ULDPE)	230μm	

Domestic membrane materials

Layer	Raw Material Name	Thickness	Total Thickness of Individual Layer
① Protective layer	Polyester copolyme (TPEE)	50μm	320μm
② Gluing Layer	TIE	20μm	
③ Barrier layer	Copolyamide (Nylon)	15μm	
④ Barrier layer	Ethylene-vinyl alcohol copolyme (EVOH)	15μm	
⑤ Gluing Layer	TIE	20μm	
⑥ Reinforcement layer	Linear low density polyethylene (LLDPE)	100μm	
⑦ Liquid contact layer	Ultra low density polyethylene (ULDPE)	100μm	

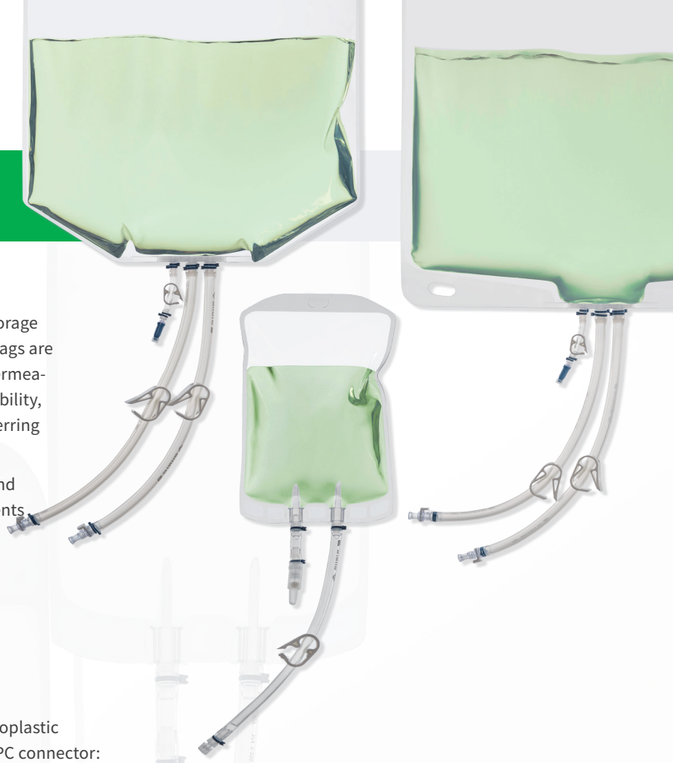


References of Membrane Material

Item	Reference Standard
Thickness, μm	GB/T 6672-2001
Water vapor permeance, g/(m²*24h)	ASTM F1249
Oxygen transmission, cm³/(m²*24h*0.1MPa)	ASTM D3985
Tensile strength (longitudinal/transverse), MPa	ASTM D882
Heat-sealing strength (longitudinal/transverse), N/15mm	YBB00122003-2015
Tearing-strength(longitudinal/transverse), N/mm	ASTM D624-00
Haze, %	ASTM D1003

Item	Reference Standard
Transmittance, %	ASTM D1003
Bacterial endotoxin	USP<85>
In vitro cytotoxicity	USP<87>
In vivo cytotoxicity	USP<88>
Physical and chemical properties	USP<661.2>
Chemical compatibility	ASTM D543

2D Single-Use Storage Bags



Storage bags are essential consumables for liquid preparation, storage and transportation in bioprocessing. Our 2D Single-Use Storage Bags are made from high-quality raw materials that ensure minimal gas permeability. The bags has excellent physical strength, chemical compatibility, and biocompatibility, making it ideal for safely storing and transferring various biopharmaceutical liquids with efficiency.

Our 2D Single-Use Storage Bags are subject to strict production and quality inspection control in strict accordance with the requirements of ISO 13485 and ISO 9001, and relevant GMP regulations are followed to ensure stable and reliable product quality. The size and tubing can be flexibly adjusted to fit various processes.

Specifications: 500mL 2-port, 2L 3-port,2L 3-port,
10L 3-port,20L 3-port, 50L 3-port
Membrane materials: External and domestic
Materials: Bag body: multi-layer co-extruded films; Tubing: thermoplastic elastomer (TPE); Bag interface: polycarbonate (PC); Luer taper/MPC connector: polypropylene (PP)/polycarbonate (PC), all conforming to USP Class VI standards

Product Features

- With good physical strength and chemical compatibility, applicable to various liquids in the biopharmaceutical process
- High transparency bags, facilitating auxiliary process judgment
- Adaptable to various mainstream transfer tools on the market
- With finished products tested by an authoritative third party for good biocompatibility and biological safety
- Operating temperature: -80°C - 60°C
- Flexibly adjustable size and tubing to fit various processes
- Sterilized by irradiation, SAL 10^{-6}, DNase/RNase-free, non-pyrogenic, human DNA-free

Application Fields

- Preparation, storage and transfer of sterile solutions such as buffer solution and media
- Feeding of and harvesting from bioreactors
- Intermediate collection and storage
- Storage of pre-chromatography liquids
- Bulk storage and transfer
- Product sampling and sample retention
- Storage of finished products
- Reagent products filling

Product Drawings