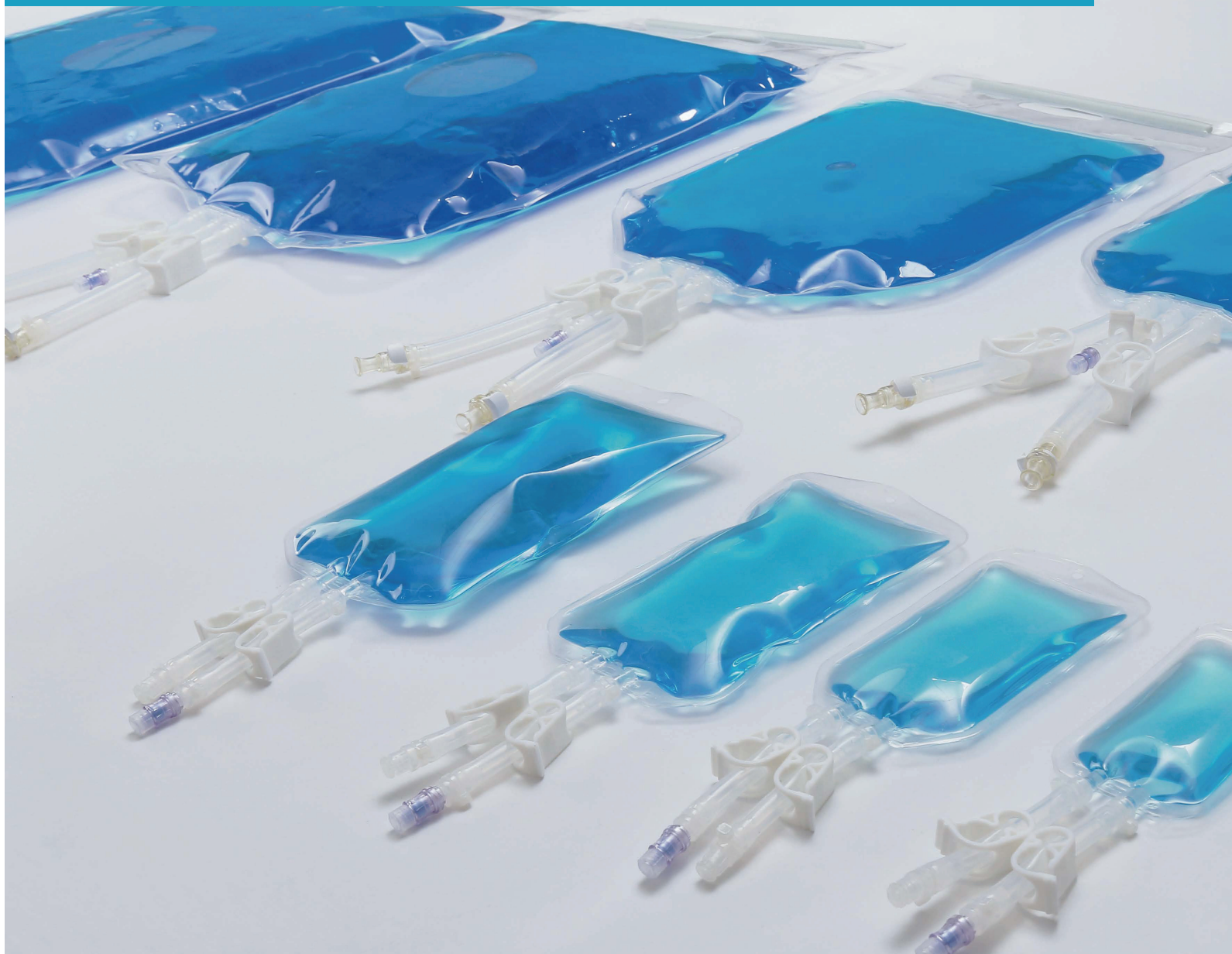


cobetter[®]
— filtration —

Lifecube[®] Single-use Bags



Lifecube® Single-use Bags

The iconic starting point of the single-use system was that in the 1980s when pharmaceutical companies began to use plastic capsule filters in small scale. In the 1990s, sterile 10-inch capsule filters (pre-sterilized by gamma irradiation) entered people's vision. At the same time, disposable plastic bags began to be used in the pharmaceutical process and developed rapidly, with the emergence of 2D and 3D single-use plastic bags of different types and volumes. Not only used in storage of liquids, today single-use bags also cover the entire biopharmaceutical process including upstream cell culture, downstream buffer mixing and storage, and storage of the final product. The comprehensive advantages of the single-use system are as follows.

- Single-use system eliminates the risk of cross contamination and greatly improves safety.
- No need for cleaning and sterilization in place. The annual production batches of the production workshop in the same scale are greatly increased, and the production efficiency is greatly improved.
- Reduced the cost of QC and cleaning verification.

Cobetter Lifecube® single-use bags are exclusively designed by Hangzhou Cobetter Filtration Equipment Co., Ltd. The entire manufacturing process of Cobetter Lifecube single-use bags from raw material storage to product packaging is completed in the ISO Class 8 clean zones. Cobetter establishes and continuously maintains the company's quality assurance system in accordance with the requirements of ISO® 9001:2015 quality management system and cGMP. All the products are manufactured under strict quality system to ensure stable and reliable quality. Cobetter Lifecube® can help you achieve simpler process, greater process efficiency and productivity, easier verification and safer products.

Features

- The film has low level of extractables and leachables, good physical strength, chemical compatibility and biocompatibility
- Easy to process judgment for high transparency film
- Meet the requirements of various solutions storage and transfer in the biopharmaceutical process
- Flexibly design bags and tubings for various processes






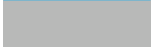

Typical Applications

- Buffer and media preparation, storage and transfer
- Preparation of bioreactor feeds
- Purified components collection
- Storage of purified intermediates
- Stock solution storage and transfer

Lifecube® Film

Specifications

The film of Cobetter Lifecube® single-use bags is composed of five layers. The thickness, materials and performance of each layer are given below.

	0.23 mm	ULDPE Fluid contact layer, ultra-low density polyethylene	Low extractables & leachables, broad chemical compatibility and biological safety.
	0.025 mm	Tie Bonding layer	
	0.02 mm	EVOH Gas barrier layer, ethylene vinyl alcohol	Minimizes gas transfusion
	0.025 mm	Tie Bonding layer	
	0.03 mm	TPEE Thermoplastic polyester elastomer	Protective layer

Film Specifications

Physical Property	Value (Before / after gamma sterilization, 25 kGy)	Procedure
Haze	21.2 %	ASTM D-1003
Transmittance	90.2 %	ASTM D-1003
Tensile Strength at Break	Horizontal 21.9 MPa, Longitudinal 26.9 MPa	ASTM D-882
Elongation at Break	Horizontal 380%, Longitudinal 420%	ASTM D-882
Elastic Modulus	Horizontal 277 MPa, Longitudinal 289 MPa	ASTM D-882
Min. Cold Temperature Tolerance	-70°C	ISO 8570
Density	0.941 g/cm ³	ASTM D-792
Water Vapor Transmission Rate	0.593 g/(m ² ·day) (23°C, 100% RH)	ASTM F-1249
Oxygen Permeability	1.024 cm ³ /(m ² ·day·0.1 MPa) (23°C, 0% RH)	ASTM D-3985
Carbon Dioxide Permeability	1.455 cm ³ /(m ² ·day·0.1 MPa) (23°C, 0% RH)	ASTM F-2476
Particle Shedding	Particulate matter in the product eluent meets the requirements in USP <788> for large volume	
Bacterial Endotoxin	Aqueous extraction contains < 0.25 EU/mL as determined by Limulus Amebocyte Lysate (LAL),	
Physicochemical Test for Plastics	Meet the requirements of USP <661> physicochemical tests for plastics.	
ISO 10993-4 Hemolysis	Meet the requirements of ISO 10993-4 in direct contact with the human blood.	
USP <87> Cytotoxicity	Meet the requirement of USP <87> In Vitro Biological Reactivity Test.	
USP <88> Biological Reactivity	Meet the criteria of the USP <88> Biological Reactivity Test for Class VI plastics.	
Indirect Food Additive	The fluid contact component materials meet the FDA Indirect Food Additive requirements cited in 21 CFR 177-182.	
Animal Free	Products do not contain animal derived components and are free from TSE risk.	
Quality Assurance	These products are manufactured in a facility which adheres to ISO® 9001:2015 Practices.	

Note: All data based on value after gamma sterilization, 25 kGy



Lifecube® 2D/3D Single-use Bags

Quality Assurance

- ISO® 9001:2015 quality management system
- ISO Class 7 clean zones
- 100% leak testing for Lifecube® 2D single-use bags
- ADCF raw materials
- Meet the FDA Indirect Food Additive requirements cited in 21 CFR 177-182
- Meet the requirement of USP <87> In Vitro Biological Reactivity Test
- Meet the criteria of the USP <88> Biological Reactivity Test for Class VI plastics

Features

- Good physical strength and excellent biological safety
- Integrated bag body designed for Lifecube® 2D single-use bags and less residual liquid
- Double-layer sterile packaging sterilized by 25-45 kGy gamma irradiation
- Local supply. Variable and flexible customized services
- Various and scalable

Typical Applications

- Buffer and media storage and transfer after filtration
- Intermediates storage
- Stock solution storage

- Aqueous extraction contains < 0.25 EU/mL as determined by Limulus Amebocyte Lysate (LAL), USP <85>
- Particulate matter in the product eluent meets the requirements in USP <788> for large volume parenterals
- Verify gamma irradiation dose according to ISO® 11137
- Provide product Validation Guide and Certificate of Quality



Buffer and Media Applications

Connection via CPC MPC/MPX Quick Couplers

Volume	Cat. No.	Inlet/Outlet	Sampling
2D 5 L	K2D05LS21C	Inlet: 50 cm ID 3/8" * OD 5/8" Lifemeta™ STS Pt-cured Silicone Tubing + 3/8" HB MPC Coupling Bodies Outlet: 50 cm ID 3/8" * OD 5/8" Lifemeta™ STS Pt-cured Silicone Tubing + 3/8" HB MPC Coupling Inserts	10 cm ID ¼" Lifemeta™ STS Pt-cured Silicone Tubing + Needlefree Swabable Valve
2D 10 L	K2D10LS21C		
2D 20 L	K2D20LS21C		
2D 35 L	K2D35LS21C		
2D 50 L	K2D50LS21C		
3D 100 L	K3D100S21C	Inlet: 150 cm ID 3/8" * OD 5/8" Lifemeta™ STS Pt-cured Silicone Tubing + 3/8" HB MPC Coupling Bodies	
3D 200 L	K3D200S21C	Outlet: 150 cm ID 3/8" * OD 5/8" Lifemeta™ STS Pt-cured Silicone Tubing + 3/8" HB MPC Coupling Inserts	
3D 250 L	K3D250S21C	Inlet: 150 cm ID ½" * OD ¾" Lifemeta™ STS Pt-cured Silicone Tubing + ½" HB MPX Coupling Bodies Outlet: 150 cm ID ½" * OD ¾" Lifemeta™ STS Pt-cured Silicone Tubing + ½" HB MPX Coupling Inserts	20 cm ID ¼" Lifemeta™ STS Pt-cured Silicone Tubing + Needlefree Swabable Valve
3D 500 L	K3D500S21C		
3D 1000 L	K3D10XS21C	Inlet: 150 cm ID ½" * OD ¾" Lifemeta™ STS Pt-cured Silicone Tubing + ½" HB MPX Coupling Bodies Outlet: 300 cm ID ½" * OD ¾" Lifemeta™ STS Pt-cured Silicone Tubing + ½" HB MPX Coupling Inserts	
3D 1500 L	K3D15XS21C		
3D 2000 L	K3D20XS21C		

Connection via Tri-clamps (TC)

Volume	Cat. No.	Inlet/Outlet	Sampling
2D 5 L	K2D05LS21T	Inlet: 50 cm ID 3/8" * OD 5/8" Lifemeta™ STS Pt-cured Silicone Tubing + ¾" Tri-clamp (TC25) Outlet: 50 cm ID 3/8" * OD 5/8" Lifemeta™ STS Pt-cured Silicone Tubing + ¾" Tri-clamp (TC25)	10 cm ID ¼" Lifemeta™ STS Pt-cured Silicone Tubing + Needlefree Swabable Valve
2D 10 L	K2D10LS21T		
2D 20 L	K2D20LS21T		
2D 35 L	K2D35LS21T		
2D 50 L	K2D50LS21T		
3D 100 L	K3D100S21S	Inlet: 150 cm ID 3/8" * OD 5/8" Lifemeta™ STS Pt-cured Silicone Tubing + 1-½" Tri-clamp (TC50) Outlet: 150 cm ID 3/8" * OD 5/8" Lifemeta™ STS Pt-cured Silicone Tubing + 1-½" Tri-clamp (TC50)	
3D 200 L	K3D200S21S		
3D 250 L	K3D250S21S	Inlet: 150 cm ID ½" * OD ¾" Lifemeta™ STS Pt-cured Silicone Tubing + 1-½" Tri-clamp (TC50) Outlet: 150 cm ID ½" * OD ¾" Lifemeta™ STS Pt-cured Silicone Tubing + 1-½" Tri-clamp (TC50)	20 cm ID ¼" Lifemeta™ STS Pt-cured Silicone Tubing + Needlefree Swabable Valve
3D 500 L	K3D500S21S		
3D 1000 L	K3D10XS21S	Inlet: 150 cm ID ½" * OD ¾" Lifemeta™ STS Pt-cured Silicone Tubing + 1-½" Tri-clamp (TC50) Outlet: 300 cm ID ½" * OD ¾" Lifemeta™ STS Pt-cured Silicone Tubing + 1-½" Tri-clamp (TC50)	
3D 1500 L	K3D15XS21S		
3D 2000 L	K3D20XS21S		

Buffer, Media and Purified Solution Applications

Connection via CPC MPC/MPX Quick Couplers

Volume	Cat. No.	Inlet/Outlet	Sampling
2D 250 mL 2D 500 mL	K2D025D2NC K2D050D2NC	Inlet: 50 cm ID ¼" * OD 7/8" Lifemeta™ STD Pt-cured Silicone Tubing + ¼" HB MPC Coupling Bodies	None
2D 1 L 2D 2 L	K2D01LD21C K2D02LD21C	Outlet: 50 cm ID ¼" * OD 7/8" Lifemeta™ STD Pt-cured Silicone Tubing + ¼" HB MPC Coupling Inserts	10 cm ID ¼" Lifemeta™ STD Pt-cured Silicone Tubing + Needlefree Swabable Valve
2D 5 L 2D 10 L 2D 20 L 2D 35 L 2D 50 L	K2D05LD21C K2D10LD21C K2D20LD21C K2D35LD21C K2D50LD21C	Inlet: 50 cm ID 3/8" * OD 5/8" Lifemeta™ STD Pt-cured Silicone Tubing + 3/8" HB MPC Coupling Bodies Outlet: 50 cm ID 3/8" * OD 5/8" Lifemeta™ STD Pt-cured Silicone Tubing + 3/8" HB MPC Coupling Inserts	10 cm ID ¼" Lifemeta™ STD Pt-cured Silicone Tubing + Needlefree Swabable Valve
3D 100 L 3D 200 L	K3D100D21C K3D200D21C	Inlet: 150 cm ID 3/8" * OD 5/8" Lifemeta™ STD Pt-cured Silicone Tubing + 3/8" HB MPC Coupling Bodies Outlet: 150 cm ID 3/8" * OD 5/8" Lifemeta™ STD Pt-cured Silicone Tubing + 3/8" HB MPC Coupling Inserts	
3D 250 L 3D 500 L	K3D250D21C K3D500D21C	Inlet: 150 cm ID ½" * OD ¾" Lifemeta™ STD Pt-cured Silicone Tubing + ½" HB MPX Coupling Bodies Outlet: 150 cm ID ½" * OD ¾" Lifemeta™ STD Pt-cured Silicone Tubing + ½" HB MPX Coupling Inserts	20 cm ID ¼" Lifemeta™ STD Pt-cured Silicone Tubing + Needlefree Swabable Valve
3D 1000 L 3D 1500 L 3D 2000 L	K3D10XD21C K3D15XD21C K3D20XD21C	Inlet: 150 cm ID ½" * OD ¾" Lifemeta™ STD Pt-cured Silicone Tubing + ½" HB MPX Coupling Bodies Outlet: 300 cm ID ½" * OD ¾" Lifemeta™ STD Pt-cured Silicone Tubing + ½" HB MPX Coupling Inserts	

Connection via Tri-clamps (TC)

Volume	Cat. No.	Inlet/Outlet	Sampling
2D 250 mL 2D 500 mL	K2D025D2NT K2D050D2NT	Inlet: 50 cm ID ¼" * OD 7/8" Lifemeta™ STD Pt-cured Silicone Tubing + ¾" Tri-clamp (TC25)	None
2D 1 L 2D 2 L	K2D01LD21T K2D02LD21T	Outlet: 50 cm ID ¼" * OD 7/8" Lifemeta™ STD Pt-cured Silicone Tubing + ¾" Tri-clamp (TC25)	10 cm ID ¼" Lifemeta™ STD Pt-cured Silicone Tubing + Needlefree Swabable Valve
2D 5 L 2D 10 L 2D 20 L 2D 35 L 2D 50 L	K2D05LD21T K2D10LD21T K2D20LD21T K2D35LD21T K2D50LD21T	Inlet: 50 cm ID 3/8" * OD 5/8" Lifemeta™ STD Pt-cured Silicone Tubing + ¾" Tri-clamp (TC25) Outlet: 50 cm ID 3/8" * OD 5/8" Lifemeta™ STD Pt-cured Silicone Tubing + ¾" Tri-clamp (TC25)	10 cm ID ¼" Lifemeta™ STD Pt-cured Silicone Tubing + Needlefree Swabable Valve
3D 100 L 3D 200 L	K3D100D21S K3D200D21S	Inlet: 150 cm ID 3/8" * OD 5/8" Lifemeta™ STD Pt-cured Silicone Tubing + 1-½" Tri-clamp (TC50) Outlet: 150 cm ID 3/8" * OD 5/8" Lifemeta™ STD Pt-cured Silicone Tubing + 1-½" Tri-clamp (TC50)	
3D 250 L 3D 500 L	K3D250D21S K3D500D21S	Inlet: 150 cm ID ½" * OD ¾" Lifemeta™ STD Pt-cured Silicone Tubing + 1-½" Tri-clamp (TC50) Outlet: 150 cm ID ½" * OD ¾" Lifemeta™ STD Pt-cured Silicone Tubing + 1-½" Tri-clamp (TC50)	20 cm ID ¼" Lifemeta™ STD Pt-cured Silicone Tubing + Needlefree Swabable Valve
3D 1000 L 3D 1500 L 3D 2000 L	K3D10XD21S K3D15XD21S K3D20XD21S	Inlet: 150 cm ID ½" * OD ¾" Lifemeta™ STD Pt-cured Silicone Tubing + 1-½" Tri-clamp (TC50) Outlet: 300 cm ID ½" * OD ¾" Lifemeta™ STD Pt-cured Silicone Tubing + 1-½" Tri-clamp (TC50)	

Connection via AseptiQuik® Connectors

Volume	Cat. No.	Inlet/Outlet	Sampling
2D 250 mL 2D 500 mL	K2D025D2NA K2D050D2NA	Inlet: 50 cm ID ¼" * OD 7/16" Lifemeta™ STD Pt-cured Silicone Tubing + ¼" AseptiQuik® G Connector	None
2D 1 L 2D 2 L	K2D01LD21A K2D02LD21A	Outlet: 50 cm ID ¼" * OD 7/16" Lifemeta™ STD Pt-cured Silicone Tubing + ¼" AseptiQuik® G Connector	10 cm ID ¼" Lifemeta™ STD Pt-cured Silicone Tubing + Needlefree Swabable Valve
2D 5 L 2D 10 L 2D 20 L 2D 35 L 2D 50 L	K2D05LD21A K2D10LD21A K2D20LD21A K2D35LD21A K2D50LD21A	Inlet: 50 cm ID 3/8" * OD 5/8" Lifemeta™ STD Pt-cured Silicone Tubing + 3/8" AseptiQuik® G Connector Outlet: 50 cm ID 3/8" * OD 5/8" Lifemeta™ STD Pt-cured Silicone Tubing + 3/8" AseptiQuik® G Connector	10 cm ID ¼" Lifemeta™ STD Pt-cured Silicone Tubing + Needlefree Swabable Valve
3D 100 L 3D 200 L	K3D100D21A K3D200D21A	Inlet: 150 cm ID 3/8" * OD 5/8" Lifemeta™ STD Pt-cured Silicone Tubing + 3/8" AseptiQuik® G Connector Outlet: 150 cm ID 3/8" * OD 5/8" Lifemeta™ STD Pt-cured Silicone Tubing + 3/8" AseptiQuik® G Connector	
3D 250 L 3D 500 L	K3D250D21A K3D500D21A	Inlet: 150 cm ID ½" * OD ¾" Lifemeta™ STD Pt-cured Silicone Tubing + ½" AseptiQuik® G Connector Outlet: 150 cm ID ½" * OD ¾" Lifemeta™ STD Pt-cured Silicone Tubing + ½" AseptiQuik® G Connector	20 cm ID ¼" Lifemeta™ STD Pt-cured Silicone Tubing + Needlefree Swabable Valve
3D 1000 L 3D 1500 L 3D 2000 L	K3D10XD21A K3D15XD21A K3D20XD21A	Inlet: 150 cm ID ½" * OD ¾" Lifemeta™ STD Pt-cured Silicone Tubing + ½" AseptiQuik® G Connector Outlet: 300 cm ID ½" * OD ¾" Lifemeta™ STD Pt-cured Silicone Tubing + ½" AseptiQuik® G Connector	

Connection via C-Flex® 374 Tubing

Volume	Cat. No.	Inlet/Outlet	Sampling
2D 250 mL 2D 500 mL	K2D025C2NP K2D050C2NP	Inlet: 50 cm ID ¼" * OD 7/16" C-Flex® 374 Tubing + Tubing Plug	None
2D 1 L 2D 2 L	K2D01LC2CP K2D02LC2CP	Outlet: 50 cm ID ¼" * OD 7/16" C-Flex® 374 Tubing + Tubing Plug	40 cm ID ¼" C-Flex® 374 Tubing + Female Luer Lock + Plug
2D 5 L 2D 10 L 2D 20 L 2D 35 L 2D 50 L	K2D05LC2CP K2D10LC2CP K2D20LC2CP K2D35LC2CP K2D50LC2CP	Inlet: 50 cm ID 3/8" * OD 5/8" C-Flex® 374 Tubing + Tubing Plug Outlet: 50 cm ID 3/8" * OD 5/8" C-Flex® 374 Tubing + Tubing Plug	40 cm ID ¼" C-Flex® 374 Tubing + Female Luer Lock + Plug
3D 100 L 3D 200 L	K3D100C2CP K3D200C2CP	Inlet: 150 cm ID 3/8" * OD 5/8" C-Flex® 374 Tubing + Tubing Plug Outlet: 150 cm ID 3/8" * OD 5/8" C-Flex® 374 Tubing + Tubing Plug	
3D 250 L 3D 500 L	K3D250C2CP K3D500C2CP	Inlet: 150 cm ID ½" * OD ¾" C-Flex® 374 Tubing + Tubing Plug Outlet: 150 cm ID ½" * OD ¾" C-Flex® 374 Tubing + Tubing Plug	40 cm ID ¼" C-Flex® 374 Tubing + Female Luer Lock + Plug
3D 1000 L 3D 1500 L 3D 2000 L	K3D10XC2CP K3D15XC2CP K3D20XC2CP	Inlet: 150 cm ID ½" * OD ¾" C-Flex® 374 Tubing + Tubing Plug Outlet: 300 cm ID ½" * OD ¾" C-Flex® 374 Tubing + Tubing Plug	

* Pharma-50 Pt-cured Silicone Tubing is available. For more pre-designed solutions, please contact Cobetter sales or technical assistance.

Supporting Containers



- Provide 2D supporting transfer frame or multi-layer rack
- Provide 3D supporting transfer carts
- 304 stainless steel
- Optional weighing module
- Flexible customized services



Cobetter provides stainless steel containers supporting Lifecube® single-use bags for customers. Customized stainless steel container carts are also available for customer requirements.



Lifecube® AS Single-use Sampling Bags

Quality Assurance

- ISO® 9001:2015 quality management system
- ISO Class 7 clean zones
- 100% leak testing
- ADCF raw materials
- Meet the FDA Indirect Food Additive requirements cited in 21 CFR 177-182
- Meet the requirement of USP <87> In Vitro Biological Reactivity Test
- Meet the criteria of the USP <88> Biological Reactivity Test for Class VI plastics
- Aqueous extraction contains < 0.25 EU/mL as determined by Limulus Amebocyte Lysate (LAL), USP <85>
- Particulate matter in the product eluent meets the requirements in USP <788> for large volume parenterals
- Verify gamma irradiation dose according to ISO® 11137

Features

- Good physical strength and excellent biological safety
- Integrated bag body and less residual liquid
- Double-layer sterile packaging sterilized by 25-45 kGy gamma irradiation
- Various choices for sampling application
- Local supply. Variable and flexible customized services

Typical Applications

- Sampling with single-use bags
- Secondary sampling from sampling bag
- Store samples after sampling

Order Information

Volume	Cat. No.	Line 1	Line 2
5 mL	KAS5ML1DLN	20 cm ID 1/8" * O 1/4" Lifemeta™ STD Pt-cured Silicone Tubing + Male Luer Lock + Sealing Cap	None
50 mL 100 mL	KAS0051DLF KAS0101DLF	20 cm ID 1/8" * OD 1/4" Lifemeta™ STD Pt-cured Silicone Tubing + Male Luer Lock + Sealing Cap	20 cm ID 1/8" * OD 1/4" Lifemeta™ STD Pt-cured Silicone Tubing + Female Luer Lock + Needlefree Swabable Valve
250 mL 500 mL	KAS0251DLF KAS0501DLF	20 cm ID 1/4" * OD 7/16" Lifemeta™ STD Pt-cured Silicone Tubing + Male Luer Lock + Sealing Cap	20 cm ID 1/4" * OD 7/16" Lifemeta™ STD Pt-cured Silicone Tubing + Female Luer Lock + Needlefree Swabable Valve
50 mL 100 mL	KAS0051DLV KAS0101DLV	20 cm ID 1/8" * OD 1/4" Lifemeta™ STD Pt-cured Silicone Tubing + Male Luer Lock + Sealing Cap	20 cm ID 1/8" * OD 1/4" Lifemeta™ STD Pt-cured Silicone Tubing + Female Luer Lock + Sampling Plug
250 mL 500 mL	KAS0251DLV KAS0501DLV	20 cm ID 1/4" * OD 7/16" Lifemeta™ STD Pt-cured Silicone Tubing + Male Luer Lock + Sealing Cap	20 cm ID 1/4" * OD 7/16" Lifemeta™ STD Pt-cured Silicone Tubing + Female Luer Lock + Sampling Plug
5 mL	KAS5ML1CLN	40 cm ID 1/8" * OD 1/4" C-Flex® 374 Tubing + Male Luer Lock + Sealing Cap	None
50 mL 100 mL	KAS0051CLF KAS0101CLF	40 cm ID 1/8" * OD 1/4" C-Flex® 374 Tubing + Male Luer Lock + Sealing Cap	40 cm ID 1/8" * OD 1/4" C-Flex® 374 Tubing + Female Luer Lock + Needlefree Swabable Valve
250 mL 500 mL	KAS0251CLF KAS0501CLF	40 cm ID 1/4" * OD 7/16" C-Flex® 374 Tubing + Male Luer Lock + Sealing Cap	40 cm ID 1/4" * OD 7/16" C-Flex® 374 Tubing + Female Luer Lock + Needlefree Swabable Valve
50 mL 100 mL	KAS0051CLV KAS0101CLV	40 cm ID 1/4" * OD 1/4" C-Flex® 374 Tubing + Male Luer Lock + Sealing Cap	40 cm ID 1/4" * OD 1/4" C-Flex® 374 Tubing + Female Luer Lock + Sampling Plug
250 mL 500 mL	KAS0251CLV KAS0501CLV	40 cm ID 1/4" * OD 7/16" C-Flex® 374 Tubing + Male Luer Lock + Sealing Cap	40 cm ID 1/4" * OD 7/16" C-Flex® 374 Tubing + Female Luer Lock + Sampling Plug

*For more pre-designed solutions, please contact Cobetter sales or technical assistance.



Lifecube® SA Single-use Assemblies



Quality Assurance

- ISO® 9001:2015 quality management system
- ISO Class 7 clean zones
- 100% leak testing
- ADCF raw materials
- Meet the FDA Indirect Food Additive requirements cited in 21 CFR 177-182
- Meet the requirement of USP <87> In Vitro Biological Reactivity Test
- Meet the criteria of the USP <88> Biological Reactivity Test for Class VI plastics
- Aqueous extraction contains < 0.25 EU/mL as determined by Limulus Amebocyte Lysate (LAL), USP <85>
- Particulate matter in the product eluent meets the requirements in USP <788> for large volume parenterals
- Verify gamma irradiation dose of sterile packaging according to ISO® 11137

Features


- Provide common used connector assemblies
- Double-layer sterile packaging sterilized by 25-45 kGy gamma irradiation
- Provide non-sterile packaging that can be autoclaved
- Local supply. Variable and flexible customized services

Typical Applications

- Connect single-use system to stainless steel system
- System connections with different connectors


Order Information

AseptiQuik® G Connectors to Tri-clamps (TC)




Cat. No.	Connector 1	Tubing	Connector 2
SAL1DR05AT	AseptiQuik® G Connector	50 cm ID ¼" * OD 7/16" Lifemeta™ STD Pt-cured Silicone Tubing	¾"Tri-clamp (TC25)
SAL1DY05AT		50 cm ID ⅜" * OD 5/8" Lifemeta™ STD Pt-cured Silicone Tubing	
SAL1DH05AT		50 cm ID ½" * OD ¾" Lifemeta™ STD Pt-cured Silicone Tubing	1-½"Tri-clamp (TC50)
SAL1DR05AS		50 cm ID ¼" * OD 7/16" Lifemeta™ STD Pt-cured Silicone Tubing	
SAL1DY05AS		50 cm ID ⅜" * OD 5/8" Lifemeta™ STD Pt-cured Silicone Tubing	
SAL1DH05AS		50 cm ID ½" * OD ¾" Lifemeta™ STD Pt-cured Silicone Tubing	

CPC MPC/MPX Quick Couplers to Tri-clamps (TC)



Cat. No.	Connector 1	Tubing	Connector 2
SAL1DR05CT	MPC Coupling Bodies	50 cm ID ¼" * OD 7/16" Lifemeta™ STD Pt-cured Silicone Tubing	¾"Tri-clamp (TC25)
SAL1DY05CT		50 cm ID ⅜" * OD 5/8" Lifemeta™ STD Pt-cured Silicone Tubing	
SAL1DH05CT	MPX Coupling Bodies	50 cm ID ½" * OD ¾" Lifemeta™ STD Pt-cured Silicone Tubing	1-½"Tri-clamp (TC50)
SAL1DR05CS	MPC Coupling Bodies	50 cm ID ¼" * OD 7/16" Lifemeta™ STD Pt-cured Silicone Tubing	
SAL1DY05CS		50 cm ID ⅜" * OD 5/8" Lifemeta™ STD Pt-cured Silicone Tubing	
SAL1DH05CS	MPX Coupling Bodies	50 cm ID ½" * OD ¾" Lifemeta™ STD Pt-cured Silicone Tubing	¾"Tri-clamp (TC25)
SAL1DR05CT01	MPC Coupling Inserts	50 cm ID ¼" * OD 7/16" Lifemeta™ STD Pt-cured Silicone Tubing	
SAL1DY05CT01		50 cm ID ⅜" * OD 5/8" Lifemeta™ STD Pt-cured Silicone Tubing	
SAL1DH05CT01	MPX Coupling Inserts	50 cm ID ½" * OD ¾" Lifemeta™ STD Pt-cured Silicone Tubing	1-½"Tri-clamp (TC50)
SAL1DR05CS01	MPC Coupling Inserts	50 cm ID ¼" * OD 7/16" Lifemeta™ STD Pt-cured Silicone Tubing	
SAL1DY05CS01		50 cm ID ⅜" * OD 5/8" Lifemeta™ STD Pt-cured Silicone Tubing	
SAL1DH05CS01	MPX Coupling Inserts	50 cm ID ½" * OD ¾" Lifemeta™ STD Pt-cured Silicone Tubing	

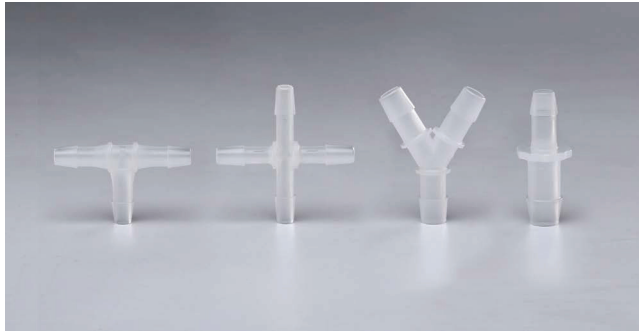
Tee Fitting Connection



Cat. No.	Connector 1	Tubing	Connector 2
SAY1DR05CC	MPC Coupling Bodies	50 cm ID ¼" * OD 7/16" Lifemeta™ STD Pt-cured Silicone Tubing x3	MPC Coupling Inserts x2
SAY1DY05CC		50 cm ID ⅜" * OD 5/8" Lifemeta™ STD Pt-cured Silicone Tubing x3	
SAY1DH05CC	MPX Coupling Bodies	50 cm ID ½" * OD ¾" Lifemeta™ STD Pt-cured Silicone Tubing x3	MPX Coupling Inserts x2
SAY1DR05TT	¾"Tri-clamp (TC25)	50 cm ID ¼" * OD 7/16" Lifemeta™ STD Pt-cured Silicone Tubing x3	¾"Tri-clamp (TC25) x2
SAY1DY05TT		50 cm ID ⅜" * OD 5/8" Lifemeta™ STD Pt-cured Silicone Tubing x3	
SAY1DH05TT		50 cm ID ½" * OD ¾" Lifemeta™ STD Pt-cured Silicone Tubing x3	
SAY1DR05SS	1-½"Tri-clamp (TC50)	50 cm ID ¼" * OD 7/16" Lifemeta™ STD Pt-cured Silicone Tubing x3	1-½"Tri-clamp (TC50) x2
SAY1DY05SS		50 cm ID ⅜" * OD 5/8" Lifemeta™ STD Pt-cured Silicone Tubing x3	
SAY1DH05SS		50 cm ID ½" * OD ¾" Lifemeta™ STD Pt-cured Silicone Tubing x3	

* For more pre-designed solutions, please contact Cobetter sales or technical assistance.

Lifemeta™ SF Pharmaceutical Grade Connectors



Quality Assurance

- ISO® 9001:2015 quality management system
- ISO Class 7 clean zones
- ADCF raw materials
- Meet the FDA Indirect Food Additive requirements cited in 21 CFR 177-182
- Meet the requirement of USP <87> In Vitro Biological Reactivity Test
- Meet the criteria of the USP <88> Biological Reactivity Test for Class VI plastics
- Aqueous extraction contains < 0.25 EU/mL as determined by Limulus Amebocyte Lysate (LAL), USP <85>
- Particulate matter in the product eluent meets the requirements in USP <788> for large volume parenterals

Features

- Polypropylene material. Can be sterilized by gamma irradiation at 25-45 kGy or autoclaved 30 minutes at 126 °C
- Withstand vacuum pressure at room temperature to 5.5 bar
- Cobetter self-produced with short delivery time

Order Information

Cat. No.	Description	Packaging
SFLRTNN	¼" Hose Barb (HB) to ¾"Tri-clamp (TC25)	
SFLYTNN	⅜" Hose Barb (HB) to ¾"Tri-clamp (TC25)	
SFLHTNN	½" Hose Barb (HB) to ¾"Tri-clamp (TC25)	
SFLRSNN	¼" Hose Barb (HB) to 1-½"Tri-clamp (TC50)	
SFLYSNN	⅜" Hose Barb (HB) to 1-½"Tri-clamp (TC50)	Non-sterile
SFLHSNN	½" Hose Barb (HB) to 1-½"Tri-clamp (TC50)	
SFLMSNN	¾" Hose Barb (HB) to 1-½"Tri-clamp (TC50)	
SFYHHHNN	½" Hose Barb (HB) -½" HB -½" HB Y-Fitting	
SFTRRRNN	¼" Hose Barb (HB) -¼" HB -¼" HB T-Fitting	
SFXRRRRNN	¼" Hose Barb (HB) -¼" HB -¼" HB -¼" HB Cross Fitting	

*For more connector types, please contact Cobetter sales or technical assistance.



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