

Nova Bio Bag

Single-Use Solution



BIOBGWB Single-Use Cell Culture Bag

Single-use processes are widely used in the biopharmaceutical field. These processes are being accepted and used by more and more biopharmaceutical companies due to their advantages of small fixed investment, reduced production time, low contamination risk, and flexible operation. GVS Single-Use Cell Culture Bag is specially designed for common cell culture applications in biopharmaceutical development.

Applications

Suitable for various cell culture conditions, including scientific research, research and development, in-process seed culture, and new therapies, such as cell therapy. Works with the rocking cell culture systems of GVS or other major suppliers in the market.

Features:

- Easy use: This product is sterile for single use, providing a safe and suitable environment for cell growth, with the features of easy installation and operation
- Good stability: The bags are composed of co-extruded multi-layer films with excellent flexibility and low gas penetration rate, and are suitable for long-term cell culture
- High cell density: The perfusion function enables the high-density cell culture in a faster manner
- Good biosafety: The material liquid contact layer is composed of EVA copolymers, which are biologically inert and can guarantee process safety
- Flexible application conditions: The bags can be used at 10–50 ° C and under operating pressures up to 0.1 bar; the bags are available in various sizes to support culture volumes from 300 mL to 25 L
- Wide selection of bag type: GVS provides cell bags for standard operation, cell therapy, and complex use; optional selections include the basic configuration, for pH & DO, perfusion, and pH & DO & perfusion
- Flexible customization of tubings, connectors, and other units to meet the needs of customers
- Complete validation documents:
- Sterility test
- Bacterial endotoxin test
- Integrity test
- Extractable test
- Chemical compatibility test
- The biocompatibility of gamma-irradiated bags meets the following specifications:
 - 1) ISO 10993-4: In vivo hemolysis test (extraction method)
 - 2) USP87: Cytotoxicity test (extraction method)
 - 3) USP <88> Class VI intramuscular implantation test
 - 4) USP88: Acute intracutaneous test
 - 5) USP88: Acute systemic toxicity test

Technical Parameters :

FL140C multilayer co-extruded film, EVA liquid contact layer

Item	Test value (> 25 kGy after sterilization by gamma irradiation)	Reference
Physical properties	Haze	89%
	Transmittance	31%
	Transmissivity	88%
	Minimum tolerable temperature	Below -40 °C
Mechanical properties	Density	0.96 g/cm ³
	Tensile strength	17 MPa
	Elongation at break	800%
	Elastic modulus	94MPa
Barrier properties	Puncture resistance	42N
	Right-angled tearing strength	21N
	Rubbing resistance (23±2° C, 49% RH, rubbed 270 times)	0 hole
	Oxygen permeation after 270 rubs (23±2° C, 0% RH, rubbed 270 times)	3.24 cm ³ /(m ² · day · 1bar)
	Water vapor transmission rate 1.58g	1.58g/ (m ² ·day) (23 °C ,100%RH)
	Oxygen permeability	3.40 cm ³ /(m ² ·day·0.1MPa)
	Carbon dioxide permeability	8.25 cm ³ /(m ² ·day·0.1MPa)
Pass USP<661> plastic packaging system test		
Comply with USP <788> "Test for Particulate Matter in Injections" , and the result meets the requirements for large-volume (> 100ml) intravenous injection.		
Comply with USP <85> "Test for Bacterial Endotoxin" , and the result is < 0.25 EU/ml, meeting the requirements for hydration products.		
No animal-derived ingredients in the components and during the production process		

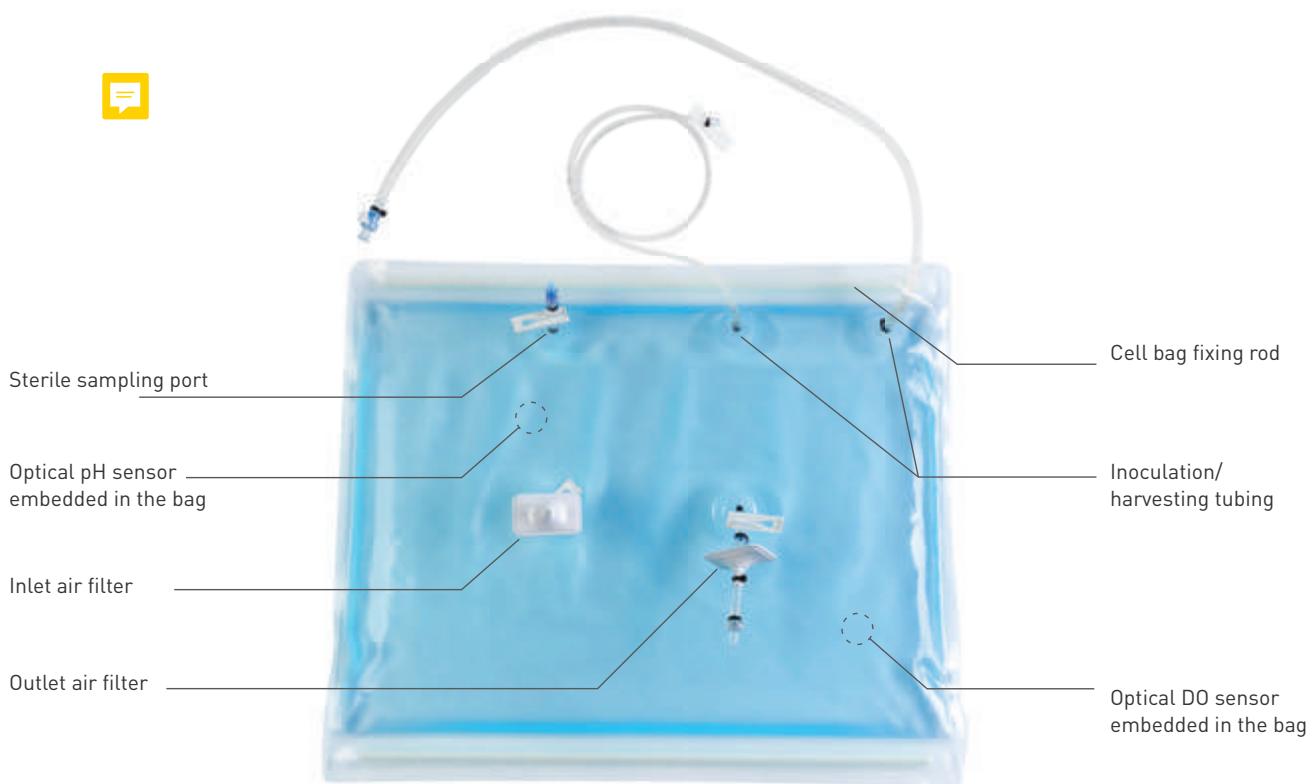
FLCB33 multilayer co-extruded film, LLDPE liquid contact layer

	Item	Test value (> 25 kGy after sterilization by gamma irradiation)	Reference
Physical properties	Haze	14.6%	ASTM D1003-21
	Transmittance	91.1%	ASTM D1003-21
	Brittleness temperature by impact	-70 °C / No. of destruction: 0	ASTM D1790-21
Mechanical properties	Density	0.928 g/cm ³	ASTM D792-20
	Tensile strength	Horizontal: 23.8 MPa Vertical: 25.8 MPa	ASTM D882-18
	Elongation at break	Horizontal: 760% Vertical: 770%	ASTM D882-18
	Tensile Modulus	Horizontal: 319 MPa Vertical: 295 MPa	ASTM D882-18
	Puncture resistance	64N	ASTM F1306-21
	Right-angled tearing strength	36N	ASTM D1004-21
Barrier properties	Water vapor transmission rate (23±0.5°C, 100%RH)	0.442 g/(m ² ·day)	ASTM F1249-20
	Oxygen permeability (23°C, 50±5%RH)	1.57 cm ³ /(m ² ·day·bar)	ASTM D1434-82[2015] ^{e1}
	Carbon dioxide permeability (23°C, 50±5%RH)	1.70 cm ³ /(m ² ·day·bar)	ASTM D1434-82[2015] ^{e1}
Pass USP<661> plastic packaging system test			
Comply with USP <788> "Test for Particulate Matter in Injections", and the result meets the requirements for large-volume (≥ 100ml) intravenous injection.			
Comply with USP <85>"Test for Bacterial Endotoxin", and the result is ≤ 25 EU/ml, meeting the requirements for hydration products.			
No animal-derived ingredients in the components and during the production process			

FL9101 multilayer co-extruded film, ULDPE liquid contact layer

Item	Test value (> 25 kGy after sterilization by gamma irradiation)	Reference
Haze	7%	ASTM D-1003
Transmittance	97%	ASTM D-1003
Physical properties	Transmissivity	93%
	Minimum tolerable temperature	-40 °C
	Density	0.9 g/cm ³
Mechanical properties	Tensile strength	13 Mpa
	Elongation at break	300%
	Elastic modulus	350 Mpa
	Right-angled tearing strength	29N
Barrier properties	Water vapor transmission rate	0.32 g (m ² ·day)
	Oxygen permeability	< 0.05 cm ³ /(m ² ·day·bar)
	Carbon dioxide permeability	< 0.2 cm ³ /(m ² ·day·bar)
Pass USP <661> plastic packaing system test		
Comply with USP <788> "Test for Particulate Matter in Injections" , and the result meets the requirements for large-volume (≥ 100ml) intravenous injection.		
Comply with USP <85> "Test for Bacterial Endotoxin" , and the result is < 25 EU/ml, meeting the requirements for hydration products.		
No animal-derived ingredients in the components and during the production process		

A standard BIOBGWB Cell Culture Bag consists of the following units:



Schematic diagram of standard cell bag

- Sterile sampling port: for easy and fast sterile connection to downstream operations;
- Inlet and outlet air filter: allows gases to go in and out of the cell bag;
- pH & DO sensor: pH & DO sensor controlled with PID automation can better maintain a suitable cell growth environment;
- Cell bag fixing rod: secures the cell bag to the tray of the rocking bioreactor;
- Inoculation/harvesting tubing: allows medium and cells to go in and out of the cell bag.

Bag volume	Min. to max. culture volume	Compatible system	Corresponding tray
2 L	300 ml-1 L		Tray 10/20
10 L	500 ml-5 L		Tray 10/20
20 L	1 L-10 L		Tray 20
22 L	1 L-10 L	WB 50	Tray 50
50 L	5 L-25 L		Tray 50
100 L	10 L-50 L		Tray 100/200
200 L	20 L-100 L		Tray 200

Ordering information

For antibodies and proteins

FL140C multilayer co-extruded film, EVA liquid contact layer, soft membrane

Volume	Version	Product code	Configuration			
			1.2	NA		
		Basic cell bag BIOBGWBAP 002LC101	3.4	Air filter	7.	Silicone 3/16 id*3/8 od*5 cm, needleless sampling
			5.	C-Flex 1/8 id *1/4 od*100 cm, female Luer	8.9	NA
			6.	NA		
2 L	pH & DO cell bag	BIOBGWBAP 002LC201	1.	C-Flex 1/4 id *7/16 od*100 cm, plug	6.	Silicone 3/16 id *3/8 od*5 cm, needleless sampling
			2.	NA	7.	C-Flex 1/8 id*1/4 od*100 cm, female Luer
			3.4	Air filter		C-Flex 1/8 id*1/4 od*100 cm, female Luer
			5.	Silicone 1/4 id *7/16 od*100 cm & C-Flex*60 cm, plug, extended tube inside the bag	8.9	pH, DO sensor
	Perfusion cell bag	BIOBGWBAP 002LC304	1.	Y-connector (attached to perfusion filter) C-Flex 1/8 id*1/4 od*6 cm, needleless sampling Silicone 1/8 id*1/4 od*100 cm &	5.	Silicone 1/4 id*7/16 od*100 cm & C-Flex*60 cm, plug, extended tube inside the bag
			2.	C-Flex*60 cm, plug C-Flex 1/8 id*1/4 od*100 cm, female Luer Silicone 1/8 id*1/4 od*100 cm & C-Flex*60 cm, female Luer	6.	Silicone 3/16 id*3/8 od*5 cm, needleless sampling
			3.4	Air filter	7.	NA
			8.9	NA		
	pH & DO & Perfusion cell bag	BIOBGWBAP 002LC404	1.	Y-connector (attached to perfusion filter) C-Flex 1/8 id*1/4 od*6 cm, needleless sampling Silicone 1/8 id*1/4 od*100 cm &	5.	Silicone 1/4 id*7/16 od*100 cm & C-Flex*60 cm, plug, extended tube inside the bag
			2.	C-Flex*60 cm, plug C-Flex 1/8 id*1/4 od*100 cm, female Luer Silicone 1/8 id*1/4 od*100 cm & C-Flex*60 cm, female Luer	6.	Silicone 3/16 id*3/8 od*5 cm, needleless sampling
			3.4	Air filter	7.	NA
					8.9	pH, DO sensor

* All connected by non-adjustable straight connectors

* The minimum culture volume for 2 L pH & DO & perfusion cell bag is 400 mL

Volume	Version	Product code	Configuration			
10 L	Basic cell bag	BIOBGWBAP 010LC101	1.2	NA		
			3.4	Air filter		
	pH & DO cell bag	BIOBGWBAP 010LC201	5.	C-Flex 1/4 id *7/16 od*100 cm, female MPC	7.	Silicone 3/16 id*3/8 od*5 cm, needleless sampling
			6.	C-Flex 1/8 id *1/4 od*100 cm, female Luer	8.9	NA
10 L	Perfusion cell bag	BIOBGWBAP 010LC304	1.	NA	6.	Silicone 3/16 id *3/8 od*5 cm, needleless sampling
			2.	C-Flex 1/4 id *7/16 od*100 cm, plug	7.	C-Flex 1/8 id*1/4 od*100 cm, female Luer
	pH & DO & Perfusion cell bag	BIOBGWBAP 010LC404	3.4	Air filter	8.9	C-Flex 1/8 id*1/4 od*100 cm, female Luer
			5.	Silicone 1/4 id *7/16 od*100 cm & C-Flex*60 cm, plug, extended tube inside the bag	5.	pH, DO sensor
10 L	Perfusion cell bag	BIOBGWBAP 010LC304	1.	Y-connector (attached to perfusion filter)	6.	Silicone 3/16 id*3/8 od*5 cm, needleless sampling
			2.	C-Flex 1/8 id*1/4 od*6 cm, needleless sampling	7.	C-Flex 1/8 id*1/4 od*100 cm, female Luer
	pH & DO & Perfusion cell bag	BIOBGWBAP 010LC404	3.4	Silicone 1/8 id*1/4 od*100 cm & C-Flex*60 cm, plug	8.9	Silicone 1/8 id*1/4 od*100 cm & C-Flex*60 cm, female Luer NA
			5.	C-Flex 1/4 id*7/16 od*100 cm, plug	5.	NA
10 L	pH & DO & Perfusion cell bag	BIOBGWBAP 010LC404	1.	Air filter	6.	Silicone 1/4 id*7/16 od*100 cm & C-Flex*60 cm, plug, extended tube inside the bag
			2.	Silicone 1/8 id*1/4 od*6 cm, needleless sampling	7.	Silicone 3/16 id*3/8 od*5 cm, needleless sampling
	pH & DO & Perfusion cell bag	BIOBGWBAP 010LC404	3.4	C-Flex 1/8 id*1/4 od*100 cm, plug	8.9	C-Flex 1/8 id*1/4 od*100 cm, female Luer
			5.	Silicone 1/8 id*1/4 od*100 cm, plug	5.	Silicone 1/8 id*1/4 od*100 cm & C-Flex*60 cm, female Luer

* All connected by non-adjustable straight connectors



Volume	Version	Product code	Configuration			
			1.2	NA		
			3.4	Air filter		
	Basic cell bag	BIOBGWBAP 020LC101	5.	C-Flex 1/4 id *7/16 od*100 cm, female MPC	7.	Silicone 3/16 id*3/8 od*5 cm, needleless sampling
			6.	C-Flex 1/8 id *1/4 od*100 cm, female Luer	8.9	NA
20 L	pH & DO cell bag	BIOBGWBAP 020LC201	1.	NA	6.	Silicone 3/16 id *3/8 od*5 cm, needleless sampling
			2.	C-Flex 3/8 id *5/8 od*100 cm, plug	7.	C-Flex 1/8 id*1/4 od*100 cm, female Luer
			3.4	Air filter		C-Flex 1/8 id*1/4 od*100 cm, female Luer
			5.	Silicone 3/8 id *5/8 od*100 cm & C-Flex*60 cm, plug, extended tube inside the bag	8.9	pH, DO sensor
	Perfusion cell bag	BIOBGWBAP 020LC304	1.	Y-connector (attached to perfusion filter) C-Flex 1/8 id*1/4 od*6 cm, needleless sampling Silicone 1/8 id*1/4 od*100 cm & C-Flex*60 cm, plug	5.	Silicone 3/8 id*5/8 od*100 cm & C-Flex*60 cm, plug, extended tube inside the bag
			2.	C-Flex 3/8 id*5/8 od*100 cm, plug	6.	Silicone 3/16 id*3/8 od*5 cm, needleless sampling
			3.4	Air filter	7.	C-Flex 1/8 id*1/4 od*100 cm, female Luer
						Silicone 1/8 id*1/4 od*100 cm & C-Flex*60 cm, female Luer
					8.9	NA
	pH & DO & Perfusion cell bag	BIOBGWBAP 020LC404	1.	Y-connector (attached to perfusion filter) C-Flex 1/8 id*1/4 od*6 cm, needleless sampling Silicone 1/8 id*1/4 od*100 cm & C-Flex*60 cm, plug	5.	Silicone 3/8 id*5/8 od*100 cm & C-Flex*60 cm, plug, extended tube inside the bag
			2.	C-Flex 3/8 id*5/8 od*100 cm, plug	6.	Silicone 3/16 id*3/8 od*5 cm, needleless sampling
			3.4	Air filter	7.	C-Flex 1/8 id*1/4 od*100 cm, female Luer
						Silicone 1/8 id*1/4 od*100 cm & C-Flex*60 cm, female Luer
					8.9	pH, DO sensor

* All connected by non-adjustable straight connectors

Volume	Version	Product code	Configuration		
			1.2 NA		
			3.4 Air filter		
	Basic cell bag	BIOBGWBAP 022LC101	5. C-Flex 1/4 id *7/16 od*100 cm, female MPC	7.	Silicone 3/16 id*3/8 od*5 cm, needleless sampling
			6. C-Flex 1/8 id *1/4 od*100 cm, female Luer	8.9	NA
22 L	pH & DO cell bag	BIOBGWBAP 022LC201	1. C-Flex 3/8 id *5/8 od*100 cm, plug	6.	Silicone 3/16 id *3/8 od*5 cm, needleless sampling
			2. NA	7.	C-Flex 1/8 id*1/4 od*100 cm, female Luer
			3.4 Air filter		C-Flex 1/8 id*1/4 od*100 cm, female Luer
			5. Silicone 3/8 id *5/8 od*100 cm & C-Flex*60 cm, plug, extended tube inside the bag		pH, DO sensor
	Perfusion cell bag	BIOBGWBAP 022LC303	1. Y-connector (attached to perfu-sion filter) C-Flex 1/8 id*1/4 od*6 cm, needleless sampling Silicone 1/8 id*1/4 od*100 cm & C-Flex*60 cm, plug	5.	Silicone 3/8 id*5/8 od*100 cm & C-Flex*60 cm, plug, extended tube inside the bag
			2. C-Flex 3/8 id*5/8 od*100 cm, plug	6.	Silicone 3/16 id*3/8 od*5 cm, needleless sampling
			3.4 Air filter	7.	C-Flex 1/8 id*1/4 od*100 cm, female Luer
					Silicone 1/8 id*1/4 od*100 cm & C-Flex*60 cm, female Luer NA
	pH & DO & Perfusion cell bag	BIOBGWBAP 022LC404	1. Y-connector (attached to perfu-sion filter) C-Flex 1/8 id*1/4 od*6 cm, needleless sampling Silicone 1/8 id*1/4 od*100 cm & C-Flex*60 cm, plug	5.	Silicone 3/8 id*5/8 od*100 cm & C-Flex*60 cm, plug, extended tube inside the bag
			2. C-Flex 3/8 id*5/8 od*100 cm, plug	6.	Silicone 3/16 id*3/8 od*5 cm, needleless sampling
			3.4 Air filter	7.	C-Flex 1/8 id*1/4 od*100 cm, female Luer
					Silicone 1/8 id*1/4 od*100 cm & C-Flex*60 cm, female Luer pH, DO sensor
				8.9	

* All connected by non-adjustable straight connectors



Volume	Version	Product code	Configuration			
50 L	Basic cell bag	BIOBGWBAP 050LC101	1.2	NA		
			3.4	Air filter	7.	Silicone 3/16 id*3/8 od*5 cm, needleless sampling
			5.	C-Flex 1/8 id *1/4 od*100 cm, female MPC	8.	NA
		BIOBGWBAP 050LS101	6.	C-Flex 1/4 id *7/16 od*100 cm, female Luer	9.10	NA
			1.8	C-Flex 3/8 id *5/8 od*100 cm, plug	7.	C-Flex 1/8 id*1/4 od*100 cm, female Luer
	pH & DO cell bag	BIOBGWBAP 050LC201	2.	NA		
			3.4	Air filter		
			5.	Silicone 3/8 id *5/8 od*100 cm & C-Flex*60 cm, plug, extended tube inside the bag		C-Flex 1/8 id*1/4 od*100 cm, female Luer
		BIOBGWBAP 050LS201	6.	Silicone 3/16 id *3/8 od*5 cm, needleless sampling	9.10	pH, DO sensor
			1.	Y-connector (attached to perfusion filter)		
50 L	Perfusion cell bag	BIOBGWBAP 050LC304		C-Flex 1/8 id*1/4 od*6 cm, needleless sampling	6.	Silicone 3/16 id*3/8 od*5 cm, needleless sampling
				Silicone 1/8 id*1/4 od*100 cm & C-Flex*60 cm, plug	7.	NA
			2.	C-Flex 3/8 id*5/8 od*100 cm, plug	8.	C-Flex 1/8 id*1/4 od*100 cm, female Luer
		BIOBGWBAP 050LS304	3.4	Air filter		Silicone 1/8 id*1/4 od*100 cm & C-Flex*60 cm, female Luer
			5.	Silicone 3/8 id*5/8 od*100 cm & C-Flex*60 cm, plug, extended tube inside the bag	9.10	NA
	pH & DO & Perfusion cell bag	BIOBGWBAP 050LC404	1.	Y-connector (attached to perfusion filter)		
				C-Flex 1/8 id*1/4 od*6 cm, needleless sampling	6.	Silicone 3/16 id*3/8 od*5 cm, needleless sampling
				Silicone 1/8 id*1/4 od*100 cm & C-Flex*60 cm, plug	7.	NA
			2.	C-Flex 3/8 id*5/8 od*100 cm, plug	8.	C-Flex 1/8 id*1/4 od*100 cm, female Luer
		BIOBGWBAP 050LS404	3.4	Air filter		Silicone 1/8 id*1/4 od*100 cm & C-Flex*60 cm, female Luer
			5.	Silicone 3/8 id*5/8 od*100 cm & C-Flex*60 cm, plug, extended tube inside the bag	9.10	NA

* All connected by non-adjustable straight connectors

Volume	Version	Product code	Configuration
100 L	Basic cell bag	BIOBGWBAP 100LC101	<p>1. Silicone 3/8 id* 5/8 od* 150 c & C-Flex *50 cm, plug</p> <p>2.3.4 Air filter</p> <p>5. Silicone 3/8 id* 5/8 od* 150 needless sampling & C-Flex *50 cm, plug, extendedtube inside the bag</p> <p>6. Silicone 1/8 id* 1/4 od* 150 cm & C-Flex *50 cm, female Luer and plug</p> <p>Silicone 1/8 id* 1/4 od * 150 cm & C-Flex *50 cm, female Luer and plug</p> <p>10.11 NA</p>
pH & DO cell bag	BIOBGWBAP 100LC201		<p>1. Silicone 3/8 id* 5/8 od* 150 c & C-Flex *50 cm, plug</p> <p>2.3.4 Air filter</p> <p>5. Silicone 3/8 id* 5/8 od* 150 needless sampling & C-Flex *50 cm, plug, extendedtube inside the bag</p> <p>6. Silicone 1/8 id* 1/4 od* 150 & C-Flex *50 cm, female Luer and plug</p> <p>Silicone 1/8 id* 1/4 od * 150 cm & C-Flex *50 cm, female Luer and plug</p> <p>10.11 pH,DO sensor</p>
200 L	Basic cell bag	BIOBGWBAP 200LC101	<p>1. Silicone 3/8 id* 5/8 od* 150 c & C-Flex *50 cm, plug</p> <p>2.3.4 Air filter</p> <p>5. Silicone 3/8 id* 5/8 od* 150 needless sampling & C-Flex *50 cm, plug, extendedtube inside the bag</p> <p>6. Silicone 1/8 id* 1/4 od* 150 cm & C-Flex *50 cm, female Luer and plug</p> <p>Silicone 1/8 id* 1/4 od * 150 cm & C-Flex *50 cm, female Luer and plug</p> <p>10.11 NA</p>
pH & DO cell bag	BIOBGWBAP 200LC201		<p>1. Silicone 3/8 id* 5/8 od* 150 c & C-Flex *50 cm, plug</p> <p>2.3.4 Air filter</p> <p>5. Silicone 3/8 id* 5/8 od* 150 needless sampling & C-Flex *50 cm, plug, extendedtube inside the bag</p> <p>6. Silicone 1/8 id* 1/4 od* 150 & C-Flex *50 cm, female Luer and plug</p> <p>Silicone 1/8 id* 1/4 od * 150 cm & C-Flex *50 cm, female Luer and plug</p> <p>10.11 pH,DO sensor</p>

Ordering information

For antibodies and proteins

FL140C multilayer co-extruded film, EVA liquid contact layer, soft membrane

Volume	Version	Product code	Configuration			
			1.2	NA		
		Basic cell bag BIOBGWBAP 002LC102	3.4	Air filter	7.	Silicone 3/16 id *3/8 od *5 cm,
			5.	C-Flex 1/8 id *1/4 od*100 cm, female Luer and plug	8.9	needleless sampling NA
			6.	NA		
2 L	pH & DO cell bag	BIOBGWBAP 002LC202	1.	C-Flex 1/4 id *7/16 od*100 cm, plug	6.	Silicone 3/16 id *3/8 od*5 cm, needleless sampling
			2.	NA	7.	C-Flex 1/8 id*1/4 od*100 cm, female Luer and plug
			3.4	Air filter		C-Flex 1/8 id*1/4 od*100 cm, female Luer and plug
			5.	Silicone 1/4 id *7/16 od*100 cm & C-Flex*60 cm, plug, extended tube inside the bag	8.9	pH, DO sensor
	Perfusion cell bag	BIOBGWBAP 002LC305	1.	Y -connector (attached to perfusion filter) C-Flex 1/8 id*1/4 od*6 cm, needleless sampling Silicone 1/8 id*1/4 od*100 cm &C-Flex *60cm, plug	5.	Silicone 1/4 id*7/16 od*100 cm & C-Flex*60 cm, plug, extended tube inside the bag
			2.	C-Flex 1/8 id*1/4 od*100 cm, female Luer and plug Silicone 1/8 id*1/4 od*100 cm & C-Flex*60 cm, female Luer and plug	6.	Silicone 3/16 id*3/8 od*5 cm, needleless sampling
			3.4	Air filter	7.	NA
			1.	Y-connector (attached to perfusion filter) C-Flex 1/8 id*1/4 od*6 cm, needleless sampling Silicone 1/8 id*1/4 od*100 cm &	8.9	NA
	pH & DO & Perfusion cell bag	BIOBGWBAP 002LC405	2.	C-Flex*60 cm, plug C-Flex 1/8 id*1/4 od*100 cm, female Luer and plug Silicone 1/8 id*1/4 od*100 cm & C-Flex*60 cm, female Luer and plug	5.	Silicone 1/4 id*7/16 od*100 cm & C-Flex*60 cm, plug, extended tube inside the bag
			3.4	Air filter	6.	Silicone 3/16 id*3/8 od*5 cm, needleless sampling
					7.	NA
					8.9	pH, DO sensor

* All connected by non-adjustable straight connectors

* The minimum culture volume for 2 L pH & DO & perfusion cell bag is 400 mL

Volume	Version	Product code	Configuration			
			1.2	NA		
			3.4	Air filter		
			5.	C-Flex 1/4 id *7/16 od*100 cm female MPC	7.	Silicone 3/16 id *3/8od *5cm needleless sampling
			6.	C-Flex 1/8 id *1/4 od*100 cm female Luer and plug	8.9	NA
10 L		BIOBGWBAP 010LC102	1.	NA	6.	Silicone 3/16 id *3/8 od*5 c
			2.	C-Flex 1/4 id *7/16 od*100 cm plug	7.	needleless sampling C-Flex 1/8 id*1/4 od*100 cm,
			3.4	Air filter		female Luer and plug
			5.	Silicone 1/4 id *7/16 od*100 cm & C-Flex*60 cm, plug, extended tube inside the bag	8.9	C-Flex 1/8 id*1/4 od*100 cm, female Luer and plug
		BIOBGWBAP 010LC202	1.	Y -connector (attached to perfusion filter) C-Flex 1/8 id*1/4 od*6 cm, needleless sampling	5.	pH, DO senso Silicone 1/4 id*7/16 od*100cm & C-Flex*60 cm, plug, extended tube inside the bag
			2.	Silicone 1/8 id*1/4 od*100 cm &C-Flex *60cm, plug	6.	Silicone 3/16 id*3/8 od*5 cm needleless sampling
			3.4	C-Flex 1/8 id*1/4 od*100 cm female Luer and plug	7.	C-Flex 1/8 id*1/4 od*100 cm female Luer and plug
			4.	Air filter	8.9	Silicone 1/8 id*1/4 od*100 cm & C-Flex*60 cm, female Luer and plug
			5.	NA		
			1.	Y-connector (attached to perfusion filter) C-Flex 1/8 id*1/4 od*6 cm, needleless sampling	5.	Silicone 1/4 id*7/16 od*100cm & C-Flex*60 cm, plug, extended tube inside the bag
			2.	Silicone 1/8 id*1/4 od*100 cm & C-Flex*60 cm, plug	6.	Silicone 3/16 id*3/8 od*5 cm, needleless sampling
			3.4	C-Flex 1/8 id*1/4 od*100 cm female Luer and plug	7.	C-Flex 1/8 id*1/4 od*100 cm female Luer and plug
			4.	Silicone 1/8 id*1/4 od*100 cm & C-Flex*60 cm, female Luer and plug	8.9	Silicone 1/8 id*1/4 od*100 cm & C-Flex*60 cm, female Luer and plug
		BIOBGWBAP 010LC305	1.	Air filter	8.9	pH, DO senso
			2.			
		BIOBGWBAP 010LC405	1.			
			2.			
			3.4			

* All connected by non-adjustable straight connectors

Volume	Version	Product code	Configuration			
			1.2	NA		
			3.4	Air filter		
	Basic cell bag	BIOBGWBAP 020LC102	5.	C-Flex 1/4 id *7/16 od*100 cm female MPC	7.	Silicone 3/16 id*3/8 od*5 cm needleless sampling
			6.	C-Flex 1/8 id *1/4 od*100 cm female Luer and plug	8.9	NA
20 L	pH & DO cell bag	BIOBGWBAP 020LC202	1.	NA	6.	Silicone 3/16 id *3/8 od*5 cm needleless sampling
			2.	C-Flex 3/8 id *5/8 od*100 cm plug	7.	C-Flex 1/8 id*1/4 od*100 cm, female Luer and plug
			3.4	Air filter		C-Flex 1/8 id*1/4 od*100 cm, female Luer and plug
			5.	Silicone 3/8 id *5/8 od*100 cm & C-Flex*60 cm, plug, extended tube inside the bag	8.9	pH, DO senso
	Perfusion cell bag	BIOBGWBAP 020LC305	1.	Y-connector (attached to perfusion filter) C-Flex 1/8 id*1/4 od*6 cm, needleless sampling	5.	Silicone 3/8 id*5/8 od*100cm & C-Flex*60 cm, plug, extended tube inside the bag
				Silicone 1/8 id*1/4 od*100 cm & C-Flex*60 cm, plug	6.	Silicone 3/16 id*3/8 od*5 cm needleless sampling
			2.	C-Flex 3/8 id*5/8 od*100 cm plug	7.	C-Flex 1/8 id*1/4 od*100 cm female Luer and plug
			3.4	Air filter		Silicone 1/8 id*1/4 od*100 cm & C-Flex*60 cm, female Luer and plug
	pH & DO & Perfusion cell bag	BIOBGWBAP 020LC405	8.9	NA		NA
			1.	Y-connector (attached to perfusion filter) C-Flex 1/8 id*1/4 od*6 cm, needleless sampling	5.	Silicone 3/8 id*5/8 od*100cm & C-Flex*60 cm, plug, extended tube inside the bag
				Silicone 1/8 id*1/4 od*100 cm & C-Flex*60 cm, plug	6.	Silicone 3/16 id*3/8 od*5 cm, needleless sampling
			2.	C-Flex 3/8 id*5/8 od*100 cm, plug	7.	C-Flex 1/8 id*1/4 od*100 cm female Luer and plug
			3.4	Air fil		Silicone 1/8 id*1/4 od*100 cm & C-Flex*60 cm, female Luer and plug
			8.9			pH, DO senso

* All connected by non-adjustable straight connectors

Volume	Version	Product code	Configuration			
			1.2	NA		
			3.4	Air filter		
			5.	C-Flex 1/4 id *7/16 od*100 cm female MPC	7.	Silicone 3/16 id*3/8 od*5 cm needleless sampling
			6.	C-Flex 1/8 id *1/4 od*100 cm female Luer and plug	8.9	NA
22 L	Basic cell bag	BIOBGWBAP 022LC102	1.	C-Flex 1/4 id *7/16 od*100 cm plug	6.	Silicone 3/16 id *3/8 od*5 cm needleless sampling
	pH & DO cell bag	BIOBGWBAP 022LC202	2.	NA	7.	C-Flex 1/8 id*1/4 od*100 cm, female Luer and plug
			3.4	Air filter		C-Flex 1/8 id*1/4 od*100 cm, female Luer and plug
			5.	Silicone 1/4 id *7/16 od*100cm & C-Flex*60 cm, plug, extended tube inside the bag	8.9	pH, DO senso
	Perfusion cell bag	BIOBGWBAP 022LC302	1.	Y-connector (attached to perfusion filter) C-Flex 1/8 id*1/4 od*6 cm, needleless sampling	5.	Silicone 3/8 id*5/8 od*100cm & C-Flex*60 cm, plug, extended tube inside the bag
			2.	Silicone 1/8 id*1/4 od*100 cm & C-Flex*60 cm, plug	6.	Silicone 3/16 id*3/8 od*5 cm needleless sampling
			3.4	C-Flex 3/8 id*5/8 od*100 cm plug	7.	C-Flex 1/8 id*1/4 od*100 cm female Luer and plug
				Air filter	8.9	Silicone 1/8 id*1/4 od*100 cm & C-Flex*60 cm, female Luer and plug
						NA
	pH & DO & Perfusion cell bag	BIOBGWBAP 022LC402	1.	Y-connector (attached to perfusion filter) C-Flex 1/8 id*1/4 od*6 cm, needleless sampling	5.	Silicone 3/8 id*5/8 od*100 cm & C-Flex*60 cm, plug, extended tube inside the bag
			2.	Silicone 1/8 id*1/4 od*100 cm & C-Flex*60 cm, plug	6.	Silicone 3/16 id*3/8 od*5 cm, needleless sampling
			3.4	C-Flex 3/8 id*5/8 od*100 cm plug	7.	C-Flex 1/8 id*1/4 od*100 cm female Luer and plug
				Air filter	8.9	Silicone 1/8 id*1/4 od*100 cm & C-Flex*60 cm, female Luer and plug
						pH, DO senso

* All connected by non-adjustable straight connectors



Volume	Version	Product code	Configuration			
50 L	Basic cell bag	BIOBGWBAP 050LC102	1.2	NA		
			3.4	Air filter	7.	Silicone 3/16 id*3/8 od*5 cm
			5.	C-Flex 1/8 id *1/4 od*100 cm female MPC and plug	needleless sampling	
		BIOBGWBAP 050LS102	6.	C-Flex 1/4 id *7/16 od*100 cm female Luer and plug	8.	NA
					9.10	NA
	pH & DO cell bag		1.8	C-Flex 3/8 id *5/8 od*100 cm plug		
		BIOBGWBAP 050LC202	2.	NA	7.	C-Flex 1/8 id*1/4 od*100 cm female Luer and plug
			3.4	Air filter		C-Flex 1/8 id*1/4 od*100 cm, female Luer and plug
			5.	Silicone 3/8 id *5/8 od*100cm & C-Flex*60 cm, plug, extended		
		BIOBGWBAP 050LS202	6.	tube inside the bag Silicone 3/16 id *3/8 od*5 cm needleless sampling	9.10	pH, DO sensor
	Perfusion cell bag	BIOBGWBAP 050LC305	1.	Y-connector (attached to perfusion filter) C-Flex 1/8 id*1/4 od*6 cm, needleless sampling	6.	Silicone 3/16 id*3/8 od*5 cm needleless sampling
				Silicone 1/8 id*1/4 od*100 cm &	7.	NA
			2.	C-Flex*60 cm, plug C-Flex 3/8 id*5/8 od*100 cm plug	8.	C-Flex 1/8 id*1/4 od*100 cm female Luer and plug
		BIOBGWBAP 050LS305	3.4	Air filter		Silicone 1/8 id*1/4 od*100 cm &
			5.	Silicone 3/8 id*5/8 od*100cm & C-Flex*60 cm, plug, extended	9.10	C-Flex*60 cm, female Luer and plug NA
	pH & DO & Perfusion cell bag	BIOBGWBAP 050LC405	1.	Y-connector (attached to perfusion filter) C-Flex 1/8 id*1/4 od*6 cm, needleless sampling	6.	Silicone 3/16 id*3/8 od*5 cm needleless sampling
				Silicone 1/8 id*1/4 od*100 cm &	7.	NA
			2.	C-Flex*60 cm, plug C-Flex 3/8 id*5/8 od*100 cm plug	8.	C-Flex 1/8 id*1/4 od*100 cm female Luer and plug
		BIOBGWBAP 050LS405	3.4	Air filter		Silicone 1/8 id*1/4 od*100 cm &
			5.	Silicone 3/8 id*5/8 od*100cm & C-Flex*60 cm, plug, extended	9.10	C-Flex*60 cm, female Luer and plug NA

* All connected by non-reducing straight connectors

Volume	Version	Product code	Configuration
100 L	Basic cell bag	BIOBGWBAP 100LC102	<p>1. Silicone 3/8 id* 5/8 od* 150 cm & C-Flex *50 cm, plug</p> <p>2.3.4 Air filter</p> <p>5. Silicone 3/8 id* 5/8 od* 150cm needless sampling & C-Flex *50 cm, plug, extendedtube inside the bag</p> <p>6. Silicone 1/8 id* 1/4 od* 150 cm & C-Flex *50 cm, female Luer and plug</p> <p>Silicone 1/8 id* 1/4 od * 150 cm & C-Flex *50 cm, female Luer and plug</p> <p>10.11 NA</p>
pH & DO cell bag	BIOBGWBAP 100LC202		<p>1. Silicone 3/8 id* 5/8 od* 150 cm & C-Flex *50 cm, plug</p> <p>2.3.4 Air filter</p> <p>5. Silicone 3/8 id* 5/8 od* 150cm needless sampling & C-Flex *50 cm, plug, extendedtube inside the bag</p> <p>6. Silicone 1/8 id* 1/4 od* 150cm & C-Flex *50 cm, female Luer and plug</p> <p>Silicone 1/8 id* 1/4 od * 150 cm & C-Flex *50 cm, female Luer and plug</p> <p>10.11 pH,DO sensor</p>
200 L	Basic cell bag	BIOBGWBAP 200LC102	<p>1. Silicone 3/8 id* 5/8 od* 150 cm & C-Flex *50 cm, plug</p> <p>2.3.4 Air filter</p> <p>5. Silicone 3/8 id* 5/8 od* 150cm needless sampling & C-Flex *50 cm, plug, extendedtube inside the bag</p> <p>6. Silicone 1/8 id* 1/4 od* 150 cm & C-Flex *50 cm, female Luer and plug</p> <p>Silicone 1/8 id* 1/4 od * 150 cm & C-Flex *50 cm, female Luer and plug</p> <p>10.11 NA</p>
pH & DO cell bag	BIOBWBAP 200LC202		<p>1. Silicone 3/8 id* 5/8 od* 150 cm & C-Flex *50 cm, plug</p> <p>2.3.4 Air filter</p> <p>5. Silicone 3/8 id* 5/8 od* 150cm needless sampling & C-Flex *50 cm, plug, extendedtube inside the bag</p> <p>6. Silicone 1/8 id* 1/4 od* 150cm & C-Flex *50 cm, female Luer and plug</p> <p>Silicone 1/8 id* 1/4 od * 150 cm & C-Flex *50 cm, female Luer and plug</p> <p>10.11 pH,DO sensor</p>

Ordering information

For novel therapies

FL140C multilayer co-extruded film, EVA liquid contact layer, soft membrane

Volume	Version	Product code	Configuration			
			1.2	NA		
			3.4	Air filter	6.	NA
			5.	Silicone 1/8 id *1/4 od*70 cm & PVC 1/8 id *3/16 od *50 cm, female Luer and plug	7.	Silicone 3/16 id*3/8 od*5 cm needleless sampling
					8.9	NA
2 L	Basic cell therapy bag	BIOBGWBCT 002LC101	1. 2. 3.4	NA VC 1/8 id*3/16 od*100 cm, female Luer and plug Silicone 1/8 id *1/4 od*100 cm & PVC 1/8 id*3/16 od*60 cm, female Luer and plug Air filter	6. 7. 8.9	Silicone 3/16 id *3/8 od*5 cm needleless sampling NA pH, DO senso
	pH & DO cell therapy bag	BIOBGWBCT 002LC201	5.	Silicone 1/4 id *7/16 od*100cm & PVC*60 cm, plug, extended tube inside the bag		
	Perfusion cell therapy bag	BIOBGWBCT 002LC303	1. 2. 3.4	Y-connector (attached to perfusion filter) PVC 1/8 id*3/16 od*6 cm, needleless sampling Silicone 1/8 id*1/4 od*100 cm & PVC 1/8 id *3/16 od *60 cm, female Luer and plug VC 1/8 id*3/16 od*100 cm, female Luer and plug Silicone 1/8 id *1/4 od*100 cm & PVC 1/8 id*3/16 od*60 cm, female Luer and plug Air filter	5. 6. 7. 8.9	Silicone 1/4 id*7/16 od*100 cm & PVC*60 cm, plug, extended tube inside the bag Silicone 3/16 id*3/8 od*5 cm needleless sampling NA NA
	pH & DO & Perfusion cell therapy bag	BIOBGWBCT 002LC403	1. 2. 3.4	Y-connector (attached to perfusion filter) PVC 1/8 id*3/16 od*6 cm, needleless sampling Silicone 1/8 id*1/4 od*100 cm & PVC 1/8 id *3/16 od *60 cm, female Luer and plug VC 1/8 id*3/16 od*100 cm, female Luer and plug Silicone 1/8 id *1/4 od*100 cm & PVC 1/8 id*3/16 od*60 cm, female Luer and plug Air filter	5. 6. 7. 8.9	Silicone 1/4 id*7/16 od*100cm & PVC*60 cm, plug, extended tube inside the bag Silicone 3/16 id*3/8 od*5 cm needleless sampling NA pH, DO senso

* All connected by non-adjustable straight connectors

* The minimum culture volume for 2 L pH & DO & perfusion cell bag is 400 ml

Volume	Version	Product code	Configuration				
			1.2	NA	6.	NA	
		Basic cell therapy bag	3.4	Air filter	7.	Silicone 3/16 id*3/8 od*5 cm needleless sampling	
		BIOBGWBCT 005LC101	5.	Silicone 1/8 id *1/4 od*70 cm & PVC 1/8 id *3/16 od *50 cm, female Luer and plug	8.9	NA	
5 L	pH & DO cell therapy bag	BIOBGWBCT 005LC201	1.	NA			
			2.	VC 1/8 id*3/16 od*100 cm, female Luer and plug Silicone 1/8 id *1/4 od*100 cm & PVC 1/8 id*3/16 od*60 cm, female Luer and plug	6.	Silicone 3/16 id *3/8 od*5 cm needleless sampling	
			3.4	Air filter	7.	NA	
			5.	Silicone 1/4 id *7/16 od*100cm & PVC*60 cm, plug, extended tube inside the bag	8.9	pH, DO senso	
	Perfusion cell therapy bag	BIOBGWBCT 005LC303	1.	Y-connector (attached to perfusion filter) PVC 1/8 id*3/16 od*6 cm, needleless sampling Silicone 1/8 id*1/4 od*100 cm & PVC 1/8 id *3/16 od *60 cm, female Luer and plug	5.	Silicone 1/4 id*7/16 od*100 cm & PVC*60 cm, plug, extended tube inside the bag	
			2.	VC 1/8 id*3/16 od*100 cm, female Luer and plug Silicone 1/8 id *1/4 od*100 cm & PVC 1/8 id*3/16 od*60 cm, female Luer and plug	6.	Silicone 3/16 id*3/8 od*5 cm needleless sampling	
			3.4	Air filter	7.	NA	
			1.	Y-connector (attached to perfusion filter) PVC 1/8 id*3/16 od*6 cm, needleless sampling Silicone 1/8 id*1/4 od*100 cm & PVC 1/8 id *3/16 od *60 cm, female Luer and plug	5.	Silicone 1/4 id*7/16 od*100 cm & PVC*60 cm, plug, extended tube inside the bag	
	pH & DO & Perfusion cell therapy bag	BIOBGWBCT 005LC403	2.	VC 1/8 id*3/16 od*100 cm, female Luer and plug Silicone 1/8 id *1/4 od*100 cm & PVC 1/8 id*3/16 od*60 cm, female Luer and plug	6.	Silicone 3/16 id*3/8 od*5 cm needleless sampling	
			3.4	Air filter	7.	NA	
					8.9	pH, DO senso	

* All connected by non-reducing straight connectors

Volume	Version	Product code	Configuration			
			1.2	NA	6.	Silicone 1/8 id *1/4 od*70 cm & PVC 1/8 id *3/16 od *50 cm, female Luer and plug
		Basic cell therapy bag	3.4	Air filter	7.	Silicone 3/16 id*3/8 od*5 cm needleless sampling
		BIOBGWBCT 010LC101	5.	Silicone 1/4 id *7/16 od*70 cm & PVC*50 cm, female Luer and plug	8.9	NA
10 L			1.	NA		
		pH & DO cell therapy bag	2.	VC 1/8 id*3/16 od*100 cm, female Luer and plug Silicone 1/8 id *1/4 od*100 cm & PVC 1/8 id*3/16 od*60 cm, female Luer and plug	6.	Silicone 3/16 id *3/8 od*5 cm needleless sampling
		BIOBGWBCT 010LC201	3.4	Air filter	7.	NA
			5.	Silicone 1/4 id *7/16 od*100 & PVC*60 cm, plug, extended tube inside the bag	8.9	pH, DO senso
		Perfusion cell therapy bag	1.	Y-connector (attached to perfusion filter) PVC 1/8 id*3/16 od*6 cm, needleless sampling	5.	Silicone 1/4 id*7/16 od*100cm & PVC*60 cm, plug, extended tube inside the bag Silicone 3/16 id*3/8 od*5 cm, needleless sampling
		BIOBGWBCT 010LC303	2.	Silicone 1/8 id*1/4 od*100 cm & PVC 1/8 id *3/16 od *60 cm, female Luer and plug	6.	PVC 1/8 id*3/16 od*100 cm, female Luer and plug Silicone 1/8 id *1/4 od*100 cm & PVC 1/8 id*3/16 od*60 cm, female Luer and plug
			3.4	VC 1/4 id*7/16 od*100 cm, plug	7.	NA
			3.4	Air filter	8.9	
		pH & DO & Perfusion cell therapy bag	1.	Y-connector (attached to perfusion filter) PVC 1/8 id*3/16 od*6 cm, needleless sampling	5.	Silicone 1/4 id*7/16 od*100cm & PVC*60 cm, plug, extended tube inside the bag Silicone 3/16 id*3/8 od*5 cm, needleless sampling
		BIOBGWBCT 010LC403	2.	Silicone 1/8 id*1/4 od*100 cm & PVC 1/8 id *3/16 od *60 cm, female Luer and plug	6.	PVC 1/8 id*3/16 od*100 cm, female Luer and plug Silicone 1/8 id *1/4 od*100 cm & PVC 1/8 id*3/16 od*60 cm, female Luer and plug
			3.4	VC 1/4 id*7/16 od*100 cm, plug	7.	NA
			3.4	Air filter	8.9	pH, DO senso

* All connected by non-adjustable straight connectors

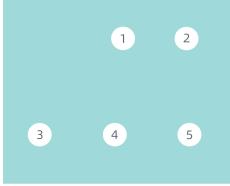
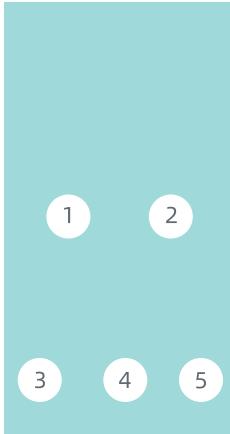
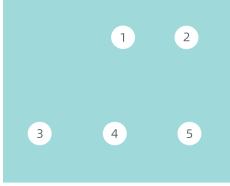
Ordering information

Mixing function

FL9101 multilayer co-extruded film, ULDPE liquid contact layer, heat resistance up to 65°C

Volume	Version	Product code	Configuration
1 L	Mixing bag	BIOBGWBMR 001LC101	<ul style="list-style-type: none">1. C-Flex 1/4 id*7/16 od*100 cm, female MPC2. C-Flex 1/8 id*1/4 od*100 cm, female Luer3. C-Flex 1/4 id*7/16 od*100 cm, male MPC4. Silicone 3/16 id*3/8 od*5 cm, needleless sampling
2 L	Mixing bag	BIOBGWBMR 002LC101	<ul style="list-style-type: none">1. C-Flex 1/4 id*7/16 od*100 cm, female MPC2. C-Flex 1/8 id*1/4 od*100 cm, female Luer3. C-Flex 1/4 id*7/16 od*100 cm, male MPC4. Silicone 3/16 id*3/8 od*5 cm, needleless sampling
10 L	Mixing bag	BIOBGWBMR 010LC101	<ul style="list-style-type: none">1.2 C-Flex 1/4 id*7/16 od*100 cm, female MPC3. C-Flex 1/4 id*7/16 od*100 cm, male MPC4. C-Flex 1/8 id*1/4 od*100 cm, female Luer5. Silicone 3/16 id*3/8 od*5 cm, needleless sampling

* All connected by non-adjustable straight connectors

Volume	Version	Product code	Configuration
20 L			
	Mixing bag	BIOBGWBMR 020LC101	1.2 C-Flex 1/4 id*7/16 od*100 cm, female MPC 3. C-Flex 1/4 id*7/16 od*100 cm, male MPC 4. C-Flex 1/8 id*1/4 od*100 cm, female Luer 5. Silicone 3/16 id*3/8 od*5 cm, needleless sampling
22 L			
	Mixing bag	BIOBGWBMR 022LC101	1.2 C-Flex 1/4 id*7/16 od*100 cm, female MPC 3. Silicone 3/16 id*3/8 od*5 cm, needleless sampling 4. C-Flex 1/8 id*1/4 od*100 cm, female Luer 5. C-Flex 1/4 id*7/16 od*100 cm, male MPC
50 L			
	Mixing bag	BIOBGWBMR 050LC101	1.2 C-Flex 1/4 id*7/16 od*100 cm, female MPC 3. C-Flex 1/4 id*7/16 od*100 cm, male MPC 4. C-Flex 1/8 id*1/4 od*100 cm, female Luer 5. Silicone 3/16 id*3/8 od*5 cm, needleless sampling

* All connected by non-adjustable straight connectors

Features of BIOBGBRCF Single-Use Bottom-Driven Mixing Bioreactor Bags

BIOBGBRCF Single-Use Bottom-Driven Mixing Bioreactor Bags are designed to match single-use bioreactors used in biopharmaceuticals. The product can be used for scientific research, process development and commercial production of CHO, Vero, and MDCK cells.

- With RENOLIT 9101 multi-layer co-extrusion films, the fluid contact layer is ultra-low density polyethylene (ULDPE), which has good biocompatibility and chemical compatibility and contributes to a low level of extractable
- The ventilation tray contains 6 ventilation dial components, and the ventilation aperture is available in 35 µm, 300 µm, and 1 mm, with good aperture uniformity. Free combinations of micro, medium, and macro sparges are supported to meet different process requirements
- The impeller of 2000 L bioreactor bags are made of engineering-grade plastic Peek for high hardness. The N40E design has a lower shear force and a shorter mixing time
- Standard imported filters to ensure the integrity of bags
- Customized tubings
- Comprehensive validations with completed validation reports



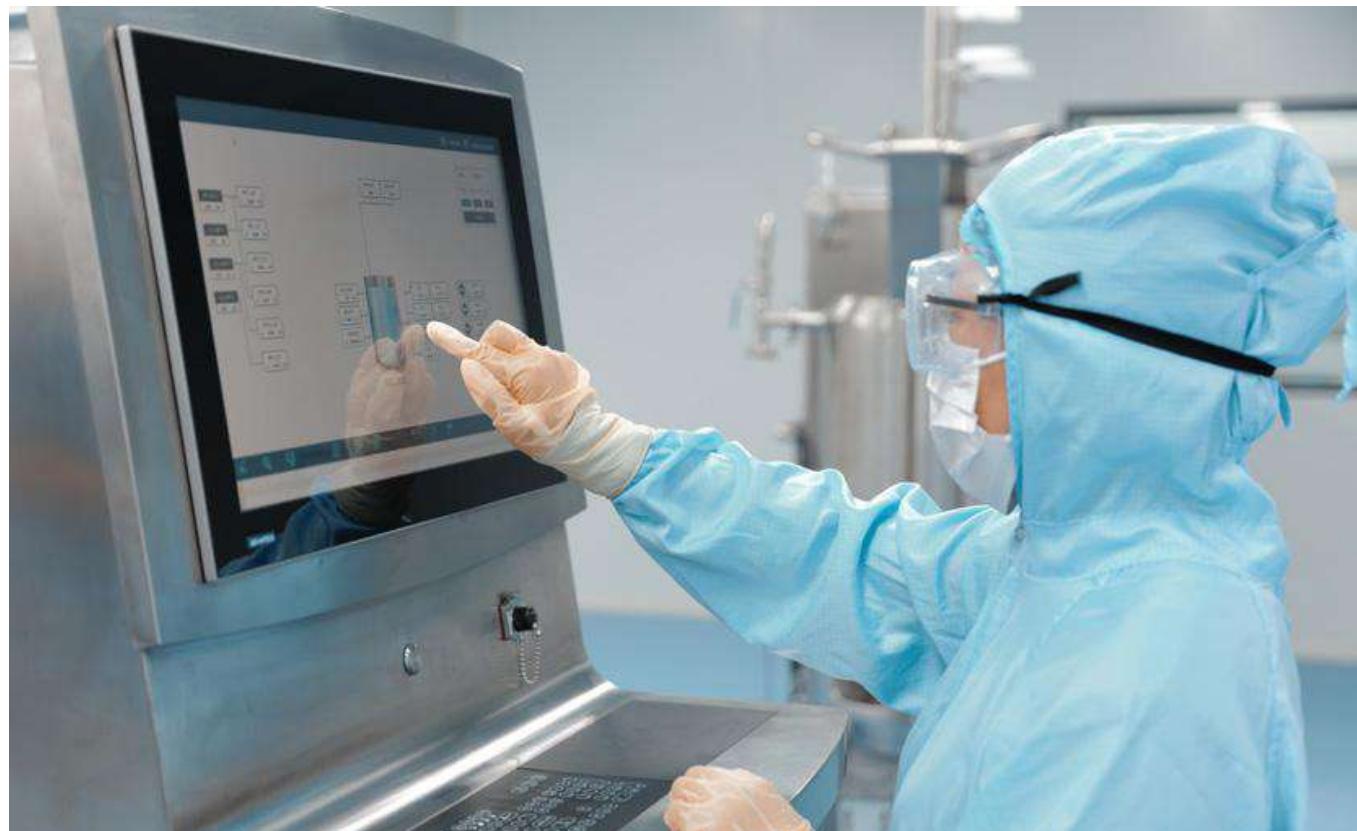
BIOBGBR Single-Use Bioreactor (2000 L) and Controller

Standard Configuration of BIOBGBRCF Single-Use Bottom-Driven Mixing Bioreactor Bags

Volume	Version	Product code	Configuration
50 L	Medium + Macro sparge	BIOBGBRCF0050P101	<ul style="list-style-type: none"> Min. working volume: 15 L Max. working volume: 50 L Impeller: M40e, 3-blade, diameter: 216 mm, angle: 40°, bottom-driven centric mixing e, c (inlet): 205 cm 3/8" × 5/8" C-Flex™ 374, plug a, g (inlet): 60 cm 3/8" × 5/8" C-Flex™ 374, plug
		BIOBGBRCF0050P201	<ul style="list-style-type: none"> h, d (small feed port): 205 cm 1/8" × 1/4" C-Flex™ 374, plug f (vent filter): CS2VTVO.2-002 (Meissner), T-connector
		BIOBGBRCF0050P203	<ul style="list-style-type: none"> tube 1: 60 cm 1/2" × 3/4" C-Flex™ 374, plug; tube 2: 28 cm 1/2" × 3/4" C-Flex™ 374
	Macro sparge	BIOBGBRCF0050P301	<ul style="list-style-type: none"> b (headspace gas): pressure sensor, CS2VTVO.2-002 (Meissner), 45 cm 1/2" × 3/4" C-Flex™ 374 + 16 cm 1/4" × 7/16" C-Flex™ 374, tc 25 + 6# quick plug for gas tubing
		BIOBGBRCF0050P303	<ul style="list-style-type: none"> i (sampling port): 50 cm 1/8" × 1/4" C-Flex™ 374 (× 2), needleless sampling (× 2) j, k (sensor): female Kleenpak™ connector, 1/2" HB l (sensor): thermowell, ID 3.5 mm
		BIOBGBRCF0050P401	<ul style="list-style-type: none"> 1, 3, 5 (harvest tubing): 128 cm 3/8" × 5/8" C-Flex™ 374, hose plug, OD 1/8"-1" pinch valve 2, 4, 6 (bottom gas): CS2VTVO.2-002 (Meissner), 153 cm 1/4" × 7/16" C-Flex™ 374, tc 25 + 6# quick plug for gas tubing (only 1 filter is available for macro sparge and medium sparge)
	Medium + Macro sparge	BIOBGBRCF0200P101	<ul style="list-style-type: none"> Min. working volume: 40 L Max. working volume: 200 L Impeller: M40e, 3-blade, diameter 216 mm, angle 40°, bottom-driven eccentric mixing
		BIOBGBRCF0200P201	<ul style="list-style-type: none"> a, b (small feed port): 305 cm 1/8" × 1/4" C-Flex™ 374, plug c, g (inlet): 305 cm 3/8" × 5/8" C-Flex™ 374, plug d, f (inlet): 60 cm 3/8" × 5/8" C-Flex™ 374, plug
		BIOBGBRCF0200P203	<ul style="list-style-type: none"> e (headspace gas): pressure sensor, CF2VTVO.2-33B1 (Meissner), 75 cm 1/2" × 3/4" C-Flex™ 374 + 16 cm 1/4" × 7/16" C-Flex™ 374, tc 25 + 6# quick plug for gas tubing o (vent filter): CL2VTVO.2-002 (Meissner), T-connector
	Macro sparge	BIOBGBRCF0200P301	<ul style="list-style-type: none"> tube 1: 25 cm 3/4" × 1" C-Flex™ 374, plug; tube 2: 60 cm 1/2" × 3/4" C-Flex™ 374
		BIOBGBRCF0200P303	<ul style="list-style-type: none"> h (sampling port): 50 cm 1/8" × 1/4" C-Flex™ 374 (× 2), needleless sampling (× 2) i, j, k, l (sensor): female Kleenpak™ connector, 1/2" HB m (sensor): thermowell, ID 3.5 mm
		BIOBGBRCF0200P401	<ul style="list-style-type: none"> n (harvest tubing): 90 cm 1/2" × 3/4" C-Flex™ 374, plug, OD 1/8"-1" pinch valve 1, 2, 3, 4, 5, 6 (bottom gas): CF2VTVO.2-33B1 (Meissner), 233 cm 1/4" × 7/16" C-Flex™ 374, tc 25 + 6# quick plug or gas tubing

Volume	Version	Product code	Configuration
500 L	Medium + Macro sparge	BIOBGBRCF0500P101	<ul style="list-style-type: none"> Min. working volume: 100 L Max. working volume: 500 L Impeller: M40e, 3-blade, diameter 266 mm, angle 40°, bottom-driven eccentric mixing
	Micro + macro sparge	BIOBGBRCF0500P201 BIOBGBRCF0500P203	<ul style="list-style-type: none"> a, b (small feed port): 320 cm 1/8" × 1/4" C-Flex™ 374, plug c, g (inlet): 320 cm 3/8" × 5/8" C-Flex™ 374, plug d, f (inlet): 60 cm 3/8" × 5/8" C-Flex™ 374, plug e (headspace gas): pressure sensor, CF2VTV0.2-33B1 (Meissner), 85 cm 1/2" × 3/4" C-Flex™ 374 + 16 cm 1/4" × 7/16" C-Flex™ 374, tc 25 + 6# quick plug for gas tubing o (vent filter): CL2VTV0.2-002 (Meissner), T-connector tube 1: 30 cm 3/4" × 1" C-Flex™ 374, plug; tube 2: 60 cm 1/2" × 3/4" C-Flex™ 374
	Macro sparge	BIOBGBRCF0500P301 BIOBGBRCF0500P303	<ul style="list-style-type: none"> h (sampling port): 50 cm 1/8" × 1/4" C-Flex™ 374 (x 2), needleless sampling (x 2) i, j, k, l (sensor): female Kleenpak™ connector, 1/2" HB m (sensor): thermowell, ID 3.5 mm n (harvest tubing): 90 cm 1/2" × 3/4" C-Flex™ 374, plug, OD 1/8"-1" pinch valve 1, 2, 3, 4, 5, 6 (bottom gas): CF2VTV0.2-33B1 (Meissner), 263 cm 1/4" × 7/16" C-Flex™ 374, tc 25 + 6# quick plug or gas tubing
	Medium sparge	BIOBGBRCF0500P401	<ul style="list-style-type: none"> Min. working volume: 200 L Max. working volume: 1000 L Impeller: M40e, 3-blade, diameter 317 mm, angle 40°, bottom-driven eccentric mixing
1000 L	Medium + Macro sparge	BIOBGBRCF1000P101	<ul style="list-style-type: none"> a, b (small feed port): 340 cm 1/8" × 1/4" C-Flex™ 374, plug c, d, f, g (inlet): 340 cm 1/2" × 3/4" C-Flex™ 374, plug e (headspace gas): pressure sensor, CF2VTV0.2-33B1 (Meissner), 75 cm 1/2" × 3/4" C-Flex™ 374 + 16 cm 1/4" × 7/16" C-Flex™ 374, tc 25 + 6# quick plug for gas tubing o (vent filter): CU2VTV0.2-1N002 (Meissner), T-connector, tube 1: 30 cm 3/4" × 1" C-Flex™ 374, plug; tube 2: 60 cm 1/2" × 3/4" C-Flex™ 374
	Micro + Macro sparge	BIOBGBRCF1000P201 BIOBGBRCF1000P203	<ul style="list-style-type: none"> h (sampling port): 50 cm 1/8" × 1/4" C-Flex™ 374 (x 2), needleless sampling (x 2) i, j, k, l (sensor): female Kleenpak™ connector, 1/2" HB m (sensor): thermowell, ID 3.5 mm n (harvest tubing): 90 cm 1" × 1-3/8" C-Flex™ 374, plug, PureFit TCL stop clamp, OD 1-3/8", WALL3/16" 1, 2, 3, 4, 5, 6 (bottom gas): CS2VTV0.2-002 (Meissner), 288 cm 1/4" × 7/16" C-Flex™ 374, tc 25 + 6# quick plug or gas tubing
	Medium sparge	BIOBGBRCF1000P401	<ul style="list-style-type: none"> Min. working volume: 200 L Max. working volume: 1000 L Impeller: M40e, 3-blade, diameter 317 mm, angle 40°, bottom-driven eccentric mixing
	Macro sparge	BIOBGBRCF1000P301 BIOBGBRCF1000P303	<ul style="list-style-type: none"> h (sampling port): 50 cm 1/8" × 1/4" C-Flex™ 374 (x 2), needleless sampling (x 2) i, j, k, l (sensor): female Kleenpak™ connector, 1/2" HB m (sensor): thermowell, ID 3.5 mm n (harvest tubing): 90 cm 1" × 1-3/8" C-Flex™ 374, plug, PureFit TCL stop clamp, OD 1-3/8", WALL3/16" 1, 2, 3, 4, 5, 6 (bottom gas): CS2VTV0.2-002 (Meissner), 288 cm 1/4" × 7/16" C-Flex™ 374, tc 25 + 6# quick plug or gas tubing
	Medium sparge	BIOBGBRCF1000P401	<ul style="list-style-type: none"> Min. working volume: 200 L Max. working volume: 1000 L Impeller: M40e, 3-blade, diameter 317 mm, angle 40°, bottom-driven eccentric mixing

Volume	Version	Product code	Configuration
2000 L	Medium + Macro sparge	BIOBGBRCF2000P101	<ul style="list-style-type: none"> Min. working volume: 400 L Max. working volume: 2000 L Impeller: M40e, 4-blade, diameter 419 mm, angle 40°, bottom-driven eccentric mixing a, b (small feed port): 380 cm 1/8" x 1/4" C-Flex™ 374, plug c, d, f, g (inlet): 380 cm 1/2" x 3/4" C-Flex™ 374, plug e (headspace gas): pressure sensor, CF2VT0.2-33B1 (Meissner), 150 cm 1/2" x 3/4" C-Flex™ 374 + 20 cm 1/4" x 7/16" C-Flex™ 374, tc 25 + 6# quick plug for gas tubing o (vent filter): CU2VT0.2-1N002 (Meissner), Y-connector, tube 1: 35 cm 3/4" x 1" C-Flex™ 374, plug; tube 2: 60 cm 3/4" x 1" C-Flex™ 374 h (sampling port): 50 cm 1/8" x 1/4" C-Flex™ 374 (x 2), needleless sampling (x 2) i, j, k, l (sensor): female Kleenpak™ connector, 1/2" HB m (sensor): thermowell, ID 3.5 mm n (harvest tubing): 90 cm 1" x 1-3/8" C-Flex™ 374, plug, PureFit TCL stop clamp, OD 1-3/8", WALL3/16"
	Micro + Macro sparge	BIOBGBRCF2000P201 BIOBGBRCF2000P203	
	Macro sparge	BIOBGBRCF2000P301 BIOBGBRCF2000P303	
Medium	sparge	BIOBGBRCF2000P401	<ul style="list-style-type: none"> 1, 2, 3, 4, 5, 6 (bottom gas): CS2VT0.2-002 (Meissner), 318 cm 1/2" x 3/4" C-Flex™ 374, tc 25 + 6# quick plug or gas tubing



Single-Use Top-Driven Bioreactor Bag

The core of the BIOBGBRCF 50L microbial fermentation system is the single-use microbial bioreactor bag designed to meet the stringent requirements of microbial fermentation. It is used for cultivating various organisms, including E-coli, pseudomonas, and yeast. The single-use microbial reactor bag is based on the proven design and materials of the BIOBGBRCF single-use bioreactor bags for mammalian cell culture.

- RENOLIT 9101 multilayer co-extruded film, ULDPE liquid contact layer, offering excellent biocompatibility and chemical compatibility while ensuring low levels of extractable content
- The dual impeller design enables vigorous mixing of the culture, and the bottom magnetic coupling eliminates external shafts, minimizing the risk of leakage
- All single-use microbial bioreactor bags are equipped with pressure sensors to maintain bag integrity during demanding fermentation processes
- The vent filter is equipped with a condensation bag at the front end to integrate

Standard Configuration of BIOBGBRCF Single-Use Bottom-Driven Microbial Bioreactor Bag

Volume	Version	Product code	Configuration
50 L	Medium sparge	BIOBGBRCF 0050P404	<ul style="list-style-type: none">• Min. working volume: 15 L• Max. working volume: 50 L• Impeller: double-layer, 6 Rushton blades, pitch blade at the top, axial flow impeller, diameter: 195 mm, bottom-driven centric mixing• a, b, e (feeding port): 05 cm 1/8" x 1/4" C-Flex, hose plug• c (pressure monitoring): pressure sensor, 45 cm 1/2" x 3/4" C-Flex, hose plug• d (vent filter + condensation bag): 37 cm 1" x 1-3/8" C-Flex, condensation bag, 20 cm 1" x 1-3/8" C-Flex, L10SSAPBBG1P, 35 cm 1" x 1-3/8" C-Flex, L05SSAPBBG1P
	Macro sparge	BIOBGBRCF 0050P304	<ul style="list-style-type: none">• f (feeding port): 205 cm 1/8" x 1/4" C-Flex (x2), hose plug (x2)• g (spare vent filter inlet) : 30 cm 1" x 1-3/8" C-Flex, AseptiQuik® L sterile connector;• h (intlet): 205 cm 3/8" x 5/8" C-Flex, hose plug• i (sampling port): 50 cm 1/8" x 1/4" C-Flex(x 2), sterile sampling valve (x 2)• j, k (sensor): Kleenpak™ sterile connector female adapter• l (sensor): thermowell, ID3.5 mm
	Medium + Macro sparge	BIOBGBRCF 0050P104	<ul style="list-style-type: none">• 1, 3, 5 (harvest tubing): 128 cm 3/8" x 5/8" C-Flex, hose plug, OD1/8"-OD1" pinch valve• 2, 4, 6 (bottom gas): CL2VT0.2-002 (Meissner), 168 cm 1/4" x 7/16" C-Flex, TC 25 + 6 # quick plug for gas tubing (Only one filter for pure medium sparge and pure macro sparge)

Features of BIOBGBRTF Single-Use Top-Driven Bioreactor Bag

BIOBGBRTF Single-Use Top-Driven Bioreactor Bag is designed to match single-use top mechanical coupling bioreactors used in biopharmaceuticals. The product can be used for scientific research, process development and commercial production of CHO, Vero, and MDCK cells, etc.

- RENOLIT 9101 multilayer co-extruded film, ULDPE fluid contact layer, offering excellent biocompatibility and chemical compatibility while ensuring low levels of extractable content
- The porous-frit microsparge column is designed from ultra-high molecular weight polyethylene (UHMW-PE), with pore sizes ranging from 20-40 µm. The generated bubbles possess a high surface area ratio and enhanced oxygen transfer. UHMW-PE exhibits outstanding impact resistance, wear resistance, chemical corrosion resistance, physiological inertness, adaptability, and hydrophobicity
- The macro-perforated microporous membrane is a dispersed aeration disc based on film. Laser-drilled to maintain uniform pore size, various specifications such as 0.178mm, 0.233mm, 0.368mm, 0.445mm, 0.582mm are available, tailored with specific apertures and quantities for each bag specification
- Equipped with imported filters to ensure bag integrity
- All pipelines can be flexibly customized
- Fully validated, complete validation reports can be provided

Standard Configuration of BIOBGBRTF Single-Use Bottom-Driven Bioreactor Bag

Volume	Version	Product code	Configuration
50 L	Micro + Macro sprise	BIOBGBRTF 0050C201	<ul style="list-style-type: none">• a (top-driven mixing parts): 3-blade impeller, diameter: 111.1 mm, angle: 45°• b (headspace gas) : pressure sensor, CF2VTV0.2-33B1 (Meissner), 20 cm 1/2" x 3/4" C-Flex + 16 cm 1/4" x 7/16" C-Flex, 6 # quick plug for gas tubing• c (inlet / feeding port) : 150 cm 1/4" x 7/16" C-Flex, 30 cm 1/8" x 1/4" C-Flex plug• k (inlet / feeding port) : 150 cm 3/8" x 5/8" C-Flex, Y connector, tubing 1: 40 cm 3/8" x 5/8" C-Flex, plug;• l (intlet) : 180 cm 3/8" x 5/8" C-Flex, plug• n (feeding port) : 15 cm 1/4" x 7/16" C-Flex, 150 cm 1/8" x 1/4" C-Flex, plug• m (vent filter) : CS2VTV0.2-002 (Meissner), Y connector, tubing 1: 25 cm 1/2" x 3/4" C-Flex;• tubing 2: 15 cm 1/2" x 3/4" C-Flex, AseptiQuik® G sterile connector, 1/2"HB• d,e,f,g(sensor): AseptiQuik® G sterile connector, 1/2"HB• h (sampling port) : 30 cm 1/8" x 1/4" C-Flex, needless sampling 50 cm 1/8" x 1/4" C-Flex, plug• i (sensor) : thermowell, ID3.5 mm• j (harvest port) : 100 cm 1/2" x 3/4" C-Flex, 30 cm 3/8" x 5/8" C-Flex, plug• o,p(bottom gas): CF2VTV0.2-33B1 (Meissner), 15 cm 1/4" x 7/16" C-Flex, one-way valve, 150 cm 1/4" x 7/16" C-Flex, 6 # quick plug for tubing
	Micro + Macro sprise	BIOBGBRTF 0050C202	

Volume	Version	Product code	Configuration
1000 L	Micro + Macro sparge	BIOBGBRTF 1000C201 5:1	<ul style="list-style-type: none"> a (top-driven mixing parts) : 3-blade impeller, diameter: 321 mm, angle :45° k (headspace gas) : pressure sensor , CS2VTV0.2-002 (Meissner), 50 cm1/2" x 3/4" C-Flex + 20 cm 1/4" x 7/16"C-Flex, 6# quick plug for gas tubing l (feeding port) : 15 cm 1/4" x 7/16" C-Flex, 250 cm 1/8" x 1/4" C-Flex, plug m (intlet / feeding port) : 250 cm 1/4" x 7/16" C-Flex, 30 cm 1/8" x 1/4" C-Flex, plug n,o (intlet / feeding port) : 250 cm 3/8" x 5/8" C-Flex, connector, tubing 1: 30 cm 3/8" x 5/8" C-Flex, plug; tubing 2: 20 cm 3/8" x 5/8" C-Flex, 35 cm 1/8" x 1/4" C-Flex, plug j (vent filter) : CUVT0.2-1N002 (Meissner)×2, connector, tubing 1: 25 cm 3/4" x 1" C-Flex; tubing 2: 25 cm 3/4" x 1" C-Flex b,c,d,e,f (sensor) : AseptiQuik® G sterile connector, 1/2"HB g (sampling port) : 30 cm 1/8" x 1/4" C-Flex, needless sampling; 80 cm 1/8" x 1/4" C-Flex, plug h (sensor) : thermowell, ID3.5 mm i (harvest port) : 160 cm 1/2" x 3/4" C-Flex, 30 cm 3/8" x 5/8" C-Flex, connector tubing 1: 30 cm 3/8" x 5/8" C-Flex, plug; tubing 2: 20 cm 3/8" x 5/8" C-Flex, 35 cm 1/8" x 1/4" C-Flex, plug p, q (bottom gas) : CS2VTV0.2-002 (Meissner), 16 cm 1/4" x 7/16"C-Flex, one-way valve, 185 cm 1/4" x 7/16" C-Flex, 6# quick plug for gas tubing
2000 L	Micro + Macro sparge	BIOBGBRTF 2000C201 5:1	<ul style="list-style-type: none"> a (top-driven mixing parts) : 3-blade impeller, diameter: 397 mm, angle: 45° c (headspace gas): pressure sensor , CS2VTV0.2-002 (Meissner), 50 cm 1/2" x 3/4" C-Flex + 30 cm 1/4" x 7/16"C-Flex, 6# quick plug for gas tubing d,g (ifeeding port) : 50 cm 1/4" x 7/16" C-Flex, 220 cm 1/8" x 1/4" C-Flex, plug e (intlet / feeding port) : 220 cm 1/2" x 3/4" C-Flex, 50 cm 3/8" x 5/8" C-Flex, plug f (intlet / feeding port) : 220 cm 1/4" x 7/16" C-Flex, 50 cm 1/8" x 1/4" C-Flex, plug h (intlet): 15 cm 1" x 1 - 3/8" C-Flex, connector (internal extended tube), tubing 1: 15 cm 3/4" x 1" C-Flex, 250 cm 1/2" x 3/4" C-Flex, plug; tubing 2: 15 cm 3/4" x 1" C-Flex, 250 cm 1/2" x 3/4" C-Flex, plug b (vent filter) : CUVT0.2-1N002 (Meissner)×2, Y connector, tubing 1: 30 cm 3/4" x 1" C-Flex; tubing 2: 30 cm 3/4" x 1" C-Flex i,j,k,l,m (sensor) : AseptiQuik® G sterile connector, 1/2"HB n (sampling port) : 30 cm 1/8" x 1/4" C-Flex, needless sampling; 80 cm 1/8" x 1/4" C-Flex, plug o (sensor) : thermowell, ID3.5 mm p (harvest port) : 200 cm 3/4" x 1" C-Flex, TC 50 q, r, s, t (bottom gas) : CS2VTV0.2-002 (Meissner), 8 cm 1/4" x7/16" C-Flex, one-way valve, 200 cm 1/4" x 7/16" C-Flex, 6# quick plug for gas tubing

BIOBGMB Single-Use Mixing Bags are made of multi-layer co-extrusion films. The sterile storage bags are guaranteed very low gas permeability, excellent chemical compatibility and biocompatibility, and good physical strength. This ensures their safety in the preparation and storage of feed liquids in various biopharmaceutical processes. The impellers are designed with high-strength magnet and secondary coating, and complete tightness is guaranteed due to the whole coating of the magnet. The combination of the bags with different impellers contributes to efficient mixing. The flexibly designed mixing bags can be integrated with various types of sensors for online monitoring of pH, conductivity, and temperature. Also, it can be flexibly equipped with 2", 3", 4", 6", and 8" feeding ports to meet solid feeding needs.

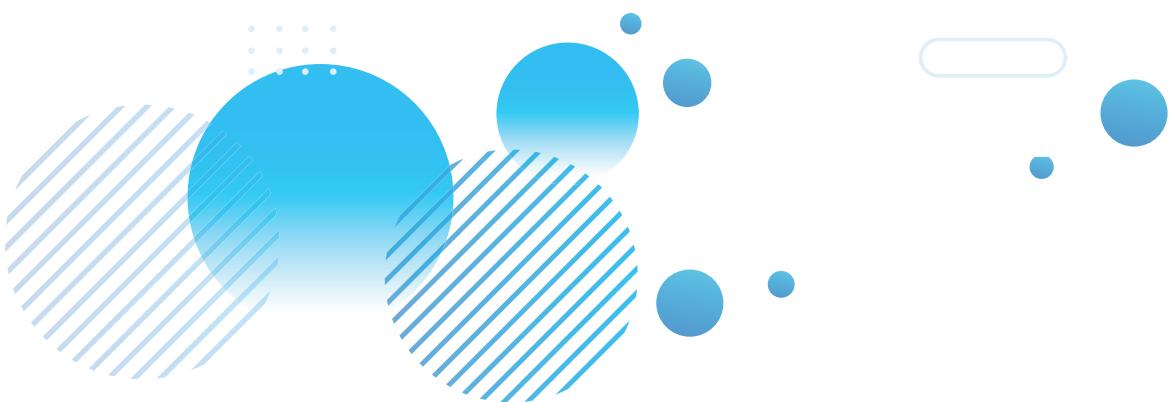
Ordering information

Single-use cubic mixing bag

Product code	Matching type	Line 1	Line 2	Line 3	Feeding port	Film
BIOBGMBSC0050S003	Cubic stainless steel mixing system 50 L	150 cm ID3/8"OD5/8" platinum cured silicone tubing + female MPC	150 cm ID3/8"OD5/8" platinum cured silicone tubing + male MPC	30 cm ID1/4"OD7/16" platinum cured silicone tubing + needleless sampling	4" Feeding port	Imported
BIOBGMBSC0050S004	Cubic stainless steel mixing system 50 L	150 cm ID3/8"OD5/8" thermoplastic tubing + plug	150 cm ID3/8"OD5/8" thermoplastic tubing + plug	30 cm ID1/4"OD7/16" thermoplastic tubing + needleless sampling	4" Feeding port	Imported
BIOBGMBSC0050S005	Cubic stainless steel mixing system 50 L	150 cm ID3/8"OD5/8" platinum cured silicone tubing + female MPC	150 cm ID3/8"OD5/8" platinum cured silicone tubing + female MPC	30 cm ID1/4"OD7/16" platinum cured silicone tubing + needleless sampling	4" Feeding port	Domestic
BIOBGMBSC0050S006	Cubic stainless steel mixing system 50 L	150 cm ID3/8"OD5/8" thermoplastic tubing + plug	150 cm ID3/8"OD5/8" thermoplastic tubing + plug	30 cm ID1/4"OD7/16" thermoplastic tubing + needleless sampling	4" Feeding port	Domestic
BIOBGMBSC0100S003	Cubic stainless steel mixing system 100 L	150 cm ID3/8"OD5/8" platinum cured silicone tubing + female MPC	150 cm ID3/8"OD5/8" platinum cured silicone tubing + male MPC	30 cm ID1/4"OD7/16" platinum cured silicone tubing + needleless sampling	4" Feeding port	Imported
BIOBGMBSC0100S004	Cubic stainless steel mixing system 100 L	150 cm ID3/8"OD5/8" thermoplastic tubing + plug	150 cm ID3/8"OD5/8" thermoplastic tubing + plug	30 cm ID1/4"OD7/16" thermoplastic tubing + needleless sampling	4" Feeding port	Imported
BIOBGMBSC0100S005	Cubic stainless steel mixing system 100 L	150 cm ID3/8"OD5/8" platinum cured silicone tubing + female MPC	150 cm ID3/8"OD5/8" platinum cured silicone tubing + male MPC	30 cm ID1/4"OD7/16" platinum cured silicone tubing + needleless sampling	4" Feeding port	Domestic
BIOBGMBSC0100S006	Cubic stainless steel mixing system 100 L	150 cm ID3/8"OD5/8" thermoplastic tubing + plug	150 cm ID3/8"OD5/8" thermoplastic tubing + plug	30 cm ID1/4"OD7/16" thermoplastic tubing + needleless sampling	4" Feeding port	Domestic
BIOBGMBSC0200S003	Cubic stainless steel mixing system 200 L	150 cm ID1/2"OD3/4" platinum cured silicone tubing + female MPX	150 cm ID1/2"OD3/4" platinum cured silicone tubing + male MPX	30 cm ID1/4"OD7/16" platinum cured silicone tubing + needleless sampling	4" Feeding port	Imported
BIOBGMBSC0200S004	Cubic stainless steel mixing system 200 L	150 cm ID1/2"OD3/4" thermoplastic tubing + plug	150 cm ID1/2"OD3/4" thermoplastic tubing + plug	30 cm ID1/4"OD7/16" thermoplastic tubing + needleless sampling	4" Feeding port	Imported
BIOBGMBSC0200S005	Cubic stainless steel mixing system 200 L	150 cm ID1/2"OD3/4" platinum cured silicone tubing + female MPX	150 cm ID1/2"OD3/4" platinum cured silicone tubing + male MPX	30 cm ID1/4"OD7/16" platinum cured silicone tubing + needleless sampling	4" Feeding port	Domestic
BIOBGMBSC0200S006	Cubic stainless steel mixing system 200 L	150 cm ID1/2"OD3/4" thermoplastic tubing + plug	150 cm ID1/2"OD3/4" thermoplastic tubing + plug	30 cm ID1/4"OD7/16" thermoplastic tubing + needleless sampling	4" Feeding port	Domestic
BIOBGMBSC0400S003	Cubic stainless steel mixing system 400 L	150 cm ID1/2"OD3/4" platinum cured silicone tubing + female MPX	150 cm ID1/2"OD3/4" platinum cured silicone tubing + male MPX	30 cm ID1/4"OD7/16" platinum cured silicone tubing + needleless sampling	4" Feeding port	Imported
BIOBGMBSC0400S004	Cubic stainless steel mixing system 400 L	150 cm ID1/2"OD3/4" thermoplastic tubing + plug	150 cm ID1/2"OD3/4" thermoplastic tubing + plug	30 cm ID1/4"OD7/16" thermoplastic tubing + needleless sampling	4" Feeding port	Imported
BIOBGMBSC0400S005	Cubic stainless steel mixing system 400 L	150 cm ID1/2"OD3/4" platinum cured silicone tubing + female MPX	150 cm ID1/2"OD3/4" platinum cured silicone tubing + male MPX	30 cm ID1/4"OD7/16" platinum cured silicone tubing + needleless sampling	4" Feeding port	Domestic
BIOBGMBSC0400S006	Cubic stainless steel mixing system 400 L	150 cm ID1/2"OD3/4" thermoplastic tubing + plug	150 cm ID1/2"OD3/4" thermoplastic tubing + plug	30 cm ID1/4"OD7/16" thermoplastic tubing + needleless sampling	4" Feeding port	Domestic

Mixing bags of other models

Product code	Matching type	Line 1	Line 2	Line 3	Feeding port	Film
BIOBGMM2R1000S003	M series circular mixing system-Generation II 1000 L	150 cm ID3/4"OD1" platinum cured silicone tubing + TC50	150 cm ID3/4"OD1" platinum cured silicone tubing + TC50	30 cm ID1/4"OD7/16" platinum cured silicone tubing + needleless sampling	4" Feeding port	Imported
BIOBGMM2R1000S007	M series circular mixing system-Generation II 1000 L	150 cm ID13/4"OD1" thermoplastic tubing + plug	150 cm ID13/4"OD1" thermoplastic tubing + plug	30 cm ID1/4"OD7/16" thermoplastic tubing + needleless sampling	4" Feeding port	Imported
BIOBGMM2R1000S005	M series circular mixing system-Generation II 1000 L	150 cm ID3/4"OD1" platinum cured silicone tubing + TC50	150 cm ID3/4"OD1" platinum cured silicone tubing + TC50	30 cm ID1/4"OD7/16" platinum cured silicone tubing + needleless sampling	4" Feeding port	Domestic
BIOBGMM2R1000S008	M series circular mixing system-Generation II 1000 L	150 cm ID13/4"OD1" thermoplastic tubing + plug	150 cm ID13/4"OD1" thermoplastic tubing + plug	30 cm ID1/4"OD7/16" thermoplastic tubing + needleless sampling	4" Feeding port	Domestic
BIOBGMM2R2000S003	M series circular mixing system-Generation II 2000 L	150 cm ID3/4"OD1" platinum cured silicone tubing + TC50	150 cm ID3/4"OD1" platinum cured silicone tubing + TC50	30 cm ID1/4"OD7/16" platinum cured silicone tubing + needleless sampling	4" Feeding port	Imported
BIOBGMM2R2000S007	M series circular mixing system-Generation II 2000 L	150 cm ID13/4"OD1" thermoplastic tubing + plug	150 cm ID13/4"OD1" thermoplastic tubing + plug	30 cm ID1/4"OD7/16" thermoplastic tubing + needleless sampling	4" Feeding port	Imported
BIOBGMM2R2000S005	M series circular mixing system-Generation II 2000 L	150 cm ID3/4"OD1" platinum cured silicone tubing + TC50	150 cm ID3/4"OD1" platinum cured silicone tubing + TC50	30 cm ID1/4"OD7/16" platinum cured silicone tubing + needleless sampling	4" Feeding port	Domestic
BIOBGMM2R2000S008	M series circular mixing system-Generation II 2000 L	150 cm ID13/4"OD1" thermoplastic tubing + plug	150 cm ID13/4"OD1" thermoplastic tubing + plug	30 cm ID1/4"OD7/16" thermoplastic tubing + needleless sampling	4" Feeding port	Domestic
BIOBGMM2R3000S003	M series circular mixing system-Generation II 3000 L	150 cm ID3/4"OD1" platinum cured silicone tubing + TC50	150 cm ID3/4"OD1" platinum cured silicone tubing + TC50	30 cm ID1/4"OD7/16" platinum cured silicone tubing + needleless sampling	4" Feeding port	Imported
BIOBGMM2R3000S007	M series circular mixing system-Generation II 3000 L	150 cm ID13/4"OD1" thermoplastic tubing + plug	150 cm ID13/4"OD1" thermoplastic tubing + plug	30 cm ID1/4"OD7/16" thermoplastic tubing + needleless sampling	4" Feeding port	Imported
BIOBGMM2R3000S005	M series circular mixing system-Generation II 3000 L	150 cm ID3/4"OD1" platinum cured silicone tubing + TC50	150 cm ID3/4"OD1" platinum cured silicone tubing + TC50	30 cm ID1/4"OD7/16" platinum cured silicone tubing + needleless sampling	4" Feeding port	Domestic
BIOBGMM2R3000S008	M series circular mixing system-Generation II 3000 L	150 cm ID13/4"OD1" thermoplastic tubing + plug	150 cm ID13/4"OD1" thermoplastic tubing + plug	30 cm ID1/4"OD7/16" thermoplastic tubing + needleless sampling	4" Feeding port	Domestic



Electrode Sleeve

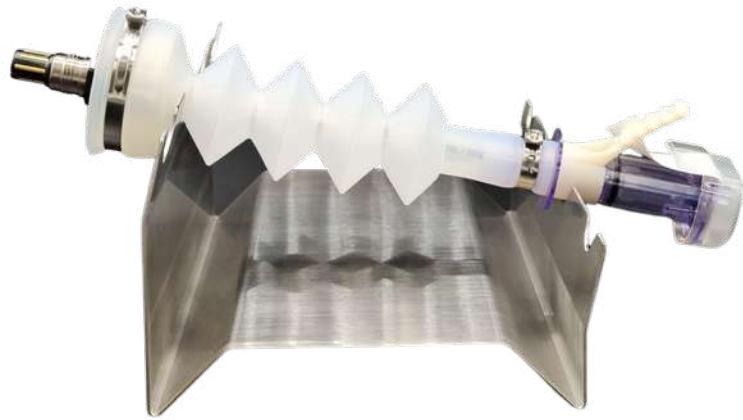
As one of the critical steps in different biopharmaceutical fields for antibody drugs, vaccines, and drugs for cell therapy and gene therapy, cell culture has direct effects on the yield and quality of drugs. The monitoring of pH and dissolved oxygen is very important during the cell culture process to ensure performance indicators, including viable cell density, cell viability, and cell unit yield. GVS Electrode Sleeve are specially designed for sterile monitoring of pH and dissolved oxygen.

Applications

Sterile connection of pH/DO electrode probe with the single-use bioreactor bag during the cell culture process.

Features

- Threaded fittings adapted to pH/DO electrodes to ensure air tightness
- The telescopic tubes of different specifications are suitable for electrodes and sterile connectors based on their lengths
- Electrode mounting clips and sterile brackets are also available
- Resistant to humid heat sterilization: temperature < 135 ° C, 30 min
- Sufficient inventory of raw materials and relevant components to support the supply chain stably
- Fully compliant with biosafety requirements



KPC Electrode Sleeve with electrode bracket

Technical Parameters

Component name	Main material
KPC/AQG connector	-
Unit Polycarbonate	Polycarbonate
Telescopic tubing Silicone	Silicone
Threaded fitting PSU	PSU

Ordering information

Product	Product name	Description
BIOBGBRCF000LP001	Electrode sleeve × 4	KPC series + telescopic tubing + threaded fitting + nylon snap ring, 4 pcs per group
BIOBGBRCF000LP002	Electrode sleeve × 2	KPC series + telescopic tubing + threaded fitting + nylon snap ring, 2 pcs per group
BIOBGBRCF000LC001	Electrode sleeve × 4	AQG series + telescopic tubing + threaded fitting + nylon snap ring, 4 pcs per group
BIOBGCBR0001L361	Electrode mounting clip	Auxiliary fixed electrode clamp × 1
BIOBGCBR0001L360	Electrode bracket	Sterile electrode bracket × 1



KPC Electrode Sleeve



AQG Electrode Sleeve

Single-Use Open Bags

Single-Use Open Bags are made of multi-layer co-extrusion films (PP infusion film and FL194A). The sterile storage bags are guaranteed very low gas permeability, excellent chemical compatibility and biocompatibility. This ensures their safety in the preparation and storage of feed liquids in various biopharmaceutical processes.

Features

- The open design facilitates the rapid feeding of a large volume of materials
- Flexible choice of film options and higher cost performance
- Flexibly customizable sizes, tubing, and connector
- Complete validation documents

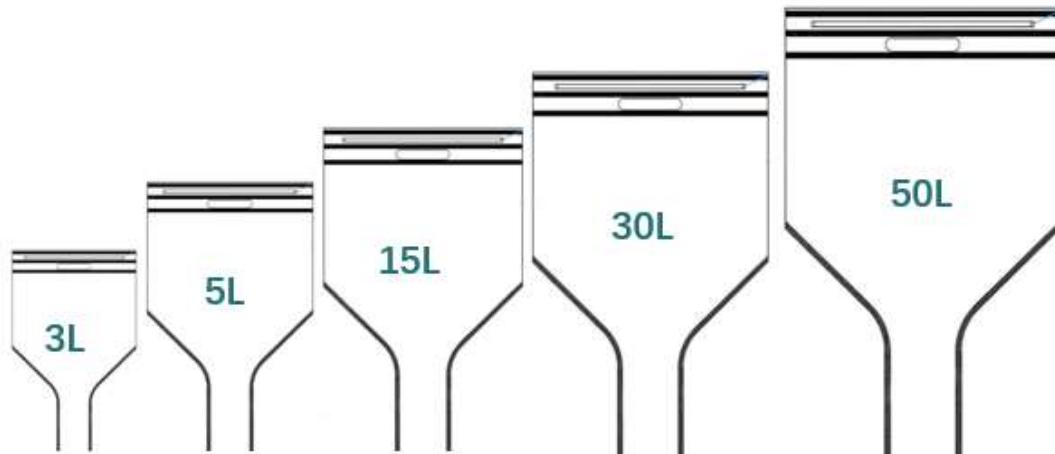
Ordering information

Product code	Matching type	Line 1	Film
BIOBGBBLR0050S005		No outlet tubing	PP infusion film
BIOBGBBLR0050S003	plastic bin 50 L	No outlet tubing	FL194A
BIOBGBBLR0050S004		50 cm ID3/8"**OD5/8" platinum cured silicone tubing + male MPC	FL194A
BIOBGBBLR0100S005		No outlet tubing	PP infusion film
BIOBGBBLR0100S003	plastic bin 100 L	No outlet tubing	FL194A
BIOBGBBLR0100S004		50 cm ID3/8"**OD5/8" platinum cured silicone tubing + male MPC	FL194A
BIOBGBBLR0200S005		No outlet tubing	PP infusion film
BIOBGBBLR0200S003	plastic bin 200 L	No outlet tubing	FL194A
BIOBGBBLR0200S004		50 cm ID3/8"**OD5/8" platinum cured silicone tubing + male MPC	FL194A
BIOBGBBLR0300S005		No outlet tubing	PP infusion film
BIOBGBBLR0300S003	plastic bin 300 L	No outlet tubing	FL194A
BIOBGBBLR0300S004		50 cm ID1/2"**OD3/4" platinum cured silicone tubing + male MPX	FL194A
BIOBGBBLR0500S005		No outlet tubing	PP infusion film
BIOBGBBLR0500S003	plastic bin 500 L	No outlet tubing	FL194A
BIOBGBBLR0500S004		50 cm ID1/2"**OD3/4" platinum cured silicone tubing + male MPX	FL194A

Product code	Matching type	Line 1	Film
BIOGBTBLR0019S005		No outlet tubing	PP infusion film
BIOGBTBLR0019S003	N series circular bin 19 L	No outlet tubing	FL194A
BIOGBTBLR0019S004		50 cm ID1/4"OD7/16" platinum cured silicone tubing + male MPC	FL194A
BIOGBTBLR0028S005		No outlet tubing	PP infusion film
BIOGBTBLR0028S003	N series circular bin 28 L	No outlet tubing	FL194A
BIOGBTBLR0028S004		50 cm ID1/4"OD7/16" platinum cured silicone tubing + male MPC	FL194A
BIOGBTBLR0038S005		No outlet tubing	PP infusion film
BIOGBTBLR0038S003	N series circular bin 38 L	No outlet tubing	FL194A
BIOGBTBLR0038S004		50 cm ID1/4"OD7/16" platinum cured silicone tubing + male MPC	FL194A
BIOGBTBLR0057S005		No outlet tubing	PP infusion film
BIOGBTBLR0057S003	N series circular bin 57 L	No outlet tubing	FL194A
BIOGBTBLR0057S004		50 cm ID3/8"OD5/8" platinum cured silicone tubing + male MPC	FL194A
BIOGBTBLR0113S005		No outlet tubing	PP infusion film
BIOGBTBLR0113S003	N series circular bin 113 L	No outlet tubing	FL194A
BIOGBTBLR0113S004		50 cm ID3/8"OD5/8" platinum cured silicone tubing + male MPC	FL194A
BIOGBTBLR0208S005		No outlet tubing	PP infusion film
BIOGBTBLR0208S003	N series circular bin 208 L	No outlet tubing	FL194A
BIOGBTBLR0208S004		50 cm ID3/8"OD5/8" platinum cured silicone tubing + male MPC	FL194A
BIOGBTBLR0303S005		No outlet tubing	PP infusion film
BIOGBTBLR0303S003	N series circular bin 303 L	No outlet tubing	FL194A
BIOGBTBLR0303S004		50 cm ID1/2"OD3/4" platinum cured silicone tubing + male MPX	FL194A
BIOGBTBLR0378S005		No outlet tubing	PP infusion film
BIOGBTBLR0378S003	N series circular bin 378 L	No outlet tubing	FL194A
BIOGBTBLR0378S004		50 cm ID1/2"OD3/4" platinum cured silicone tubing + male MPX	FL194A
BIOGBTBLR0568S005		No outlet tubing	PP infusion film
BIOGBTBLR0568S003	N series circular bin 568 L	No outlet tubing	FL194A
BIOGBTBLR0568S004		50 cm ID1/2"OD3/4" platinum cured silicone tubing + male MPX	FL194A
BIOGBTBLR0050S005		No outlet tubing	PP infusion film
BIOGBTBLR0050S003	T series circular bin 50 L	No outlet tubing	FL194A
BIOGBTBLR0050S004		50 cm ID3/8"OD5/8" platinum cured silicone tubing + male MPC	FL194A
BIOGBTBLR0100S005		No outlet tubing	PP infusion film
BIOGBTBLR0100S003	T series circular bin 100 L	No outlet tubing	FL194A
BIOGBTBLR0100S004		50 cm ID3/8"OD5/8" platinum cured silicone tubing + male MPC	FL194A
BIOGBTBLR0200S005		No outlet tubing	PP infusion film
BIOGBTBLR0200S003	T series circular bin 200 L	No outlet tubing	FL194A
BIOGBTBLR0200S004		50 cm ID3/8"OD5/8" platinum cured silicone tubing + male MPC	FL194A

Single-Use Powder-Feeding Bag

GVS Single-Use Powder Feeding Bags are easy to use with high recovery and do not require cleaning or sterilization. The bags are made of anti-static films; the feeding port and the bag are closely fit, effectively avoiding residues.



Powder-feeding bag

Features

- Volume range: 3 L, 5 L, 15 L, 30 L, 50 L
- Feeding port sizes: 2", 3", 4", 6", 8"
- Optional washing function: maximize the recovery of residual powder
- Soft bag body and ergonomic rods for easy operation

Ordering information

Product code	Matching type	Feeding port	Film
BIOBGBP0003S001	3 L	3" Feeding port	Anti-static film
BIOBGBP0003S002	3 L	4" Feeding port	Anti-static film
BIOBGBP0003S003	3 L	2" Feeding port	Anti-static film
BIOBGBP0005S001	5 L	3" Feeding port	Anti-static film
BIOBGBP0005S002	5 L	4" Feeding port	Anti-static film
BIOBGBP0005S003	5 L	2" Feeding port	Anti-static film
BIOBGBP0015S001	15 L	3" Feeding port	Anti-static film
BIOBGBP0015S002	15 L	4" Feeding port	Anti-static film
BIOBGBP0015S003	15 L	2" Feeding port	Anti-static film
BIOBGBP0030S001	30 L	3" Feeding port	Anti-static film
BIOBGBP0030S002	30 L	4" Feeding port	Anti-static film
BIOBGBP0030S004	30 L	6" Feeding port	Anti-static film
BIOBGBP0050S001	50 L	3" Feeding port	Anti-static film
BIOBGBP-0050-S002	50 L	4" Feeding port	Anti-static film
BIOBGBP-0050-S004	50 L	6" Feeding port	Anti-static film
BIOBGBP-0050-S005	50 L	8" Feeding port	Anti-static film

Single-Use Weighing Bag

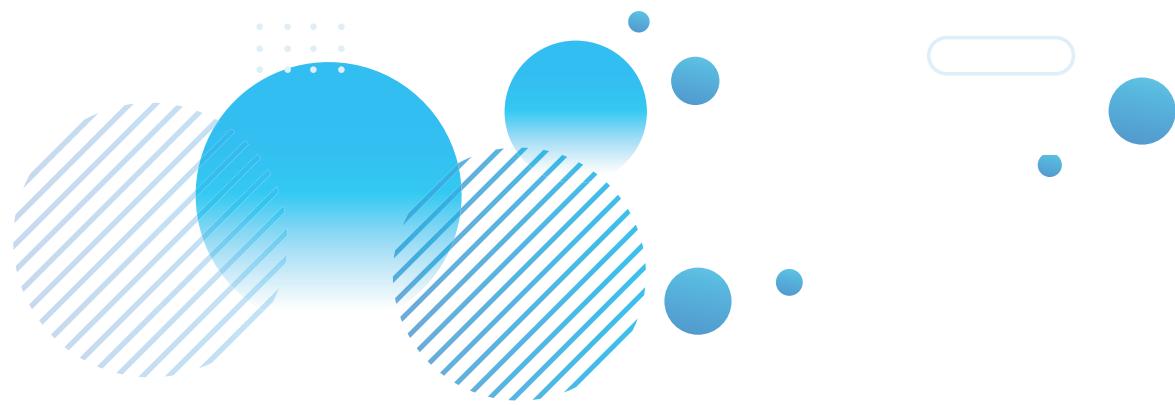
GVS weighing bags are made of PE films and the 3D design contributes to convenient weighing.

Features

- Volume range: 1 L, 5 L, 10 L, 50 L
- Seal transfer can be achieved with a heat sealer, sealing clip, or cable tie
- The 3D design facilitates weighing

Ordering information

Product code	Volume	Film
BIOBGBW0001S002	1 L	PE film
BIOBGBW0005S002	5 L	PE film
BIOBGBW0010S002	10 L	PE film
BIOBGBW0050S002	50 L	PE film
BIOBGBWX200S003	200 ml	PE films for pharmaceutical packaging
BIOBGBW0003S003	3 L	PE films for pharmaceutical packaging
BIOBGBW0005S003	5 L	PE films for pharmaceutical packaging
BIOBGBW0006S003	6 L	PE films for pharmaceutical packaging



Bio Bag

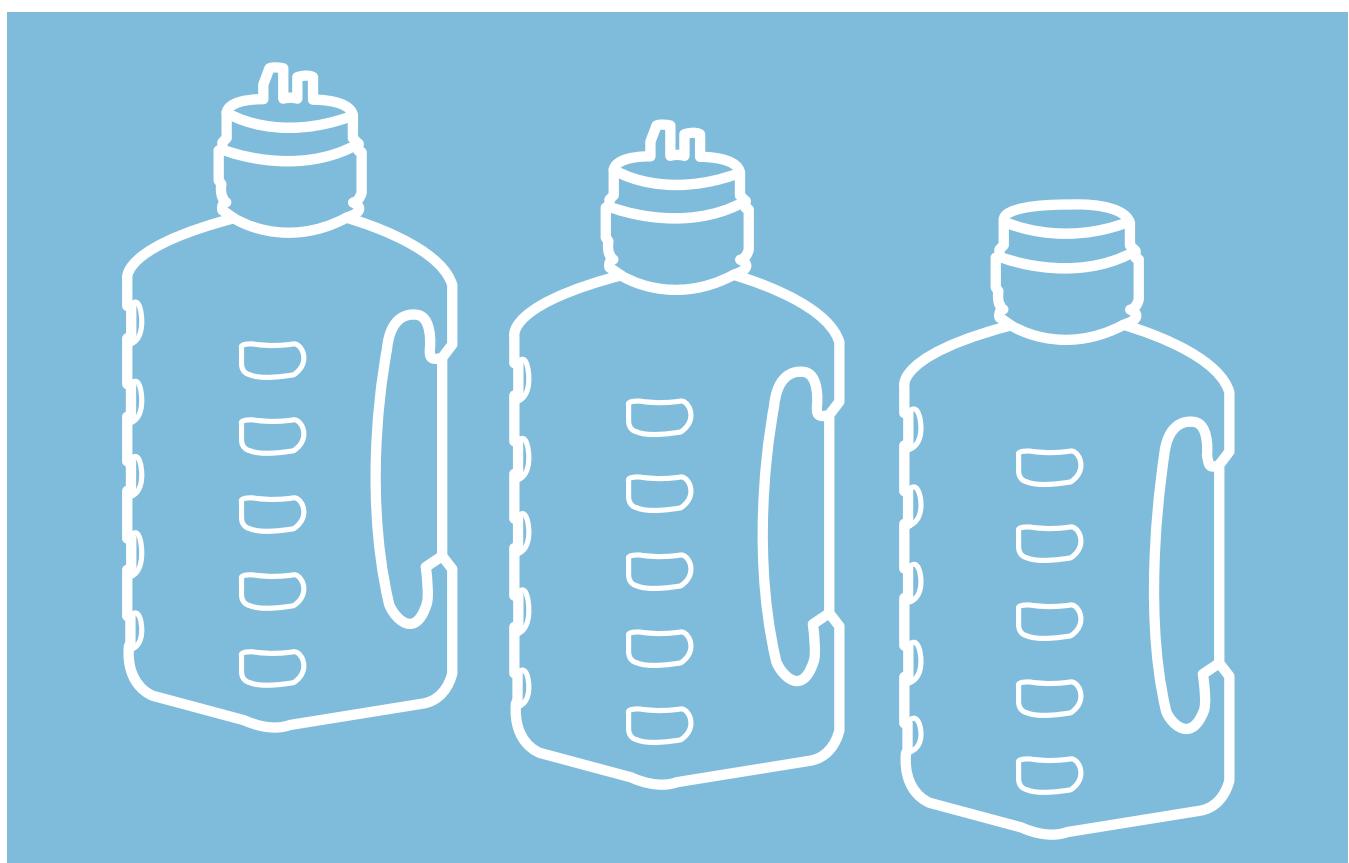
Liquid Storage Solution

The storage and transport of process fluids are critical in biopharmaceutical processes. GVS Single-Use Storage Systems are specially designed for medium storage and transfer, cell fluid clarification and collection, interim storage of filtered buffers, intermediate product storage, bulk solution storage and cryopreservation, interim storage of semi-finished products, etc. Flexible transfer can be achieved with GVS 2D Storage Bags, 3D Storage Bags, and Storage Bottles, together with different storage and transfer tools. These systems include cubic collapsible plastic boxes, circular plastic bins, 2D plastic trays, stainless steel tanks, and carts.

Storage Bottle

Single-Use Storage Bottles are designed for the storage, transport, and cryopreservation of liquids used in biopharmaceutical processes. It can be used for sensitive liquids, buffers, culture media, etc. Autoclave and gamma irradiation versions with different caps are available. There is no risk of batch-to-batch or product-to-product cross-contamination. In addition, the bottle is equipped with multiple designs of caps and can be flexibly selected by customers according to their different requirements for liquid transfer.

The caps of Single-Use Storage Bottles are available in 20 mm, 38 mm, 48 mm, and 80 mm, and are suitable for various steps of biotechnology and pharmaceutical liquid transport. The caps can be adapted to GVS liquid storage bottles as well as some foreign brand liquid storage bottles.



Features

- The bottle is made of PC material for its durability and transparency
- The cap is equipped with a silicone gasket to prevent leakage
- Volume range: 5 mL–10 L
- No additives, irradiated natural discoloration
- Fully validated to ensure safety
- Can be stored at – 80 ° C
- Resistant to moist heat sterilization at 121 ° C for 30 min for 3 times
- Customization available

Validation Documents

- USP <661>
- ISO10993-4 Hemolysis
- USP<88>Class VI
- USP<87> No cytotoxicity
- USP<85> No pyrogen
- USP <788> Particulate Matter in Injections
- FDA 21 CFR 177.1580
- FDA 21 CFR 177.1520



Ordering information

Bottle with regular cap

Product code - sterile	Product code - non-sterile	Volume	Dimension L*W*H (mm)	Package	Cap
BIOBGBTA5ML001	BIOBGBTB5ML001	5 mL	36*36*60	200	
BIOBGBTA20ML001	BIOBGBTB20ML001	20 mL	36*36*80	200	20 mm regular cap
BIOBGBTA50ML001	BIOBGBTB50ML001	50 mL	45*45*85	120	
BIOBGBTA125ML001	BIOBGBTB125ML001	125 mL	54*54*120	60	
BIOBGBTA250ML001	BIOBGBTB250ML001	250 mL	68*68*140	40	38 mm regular cap
BIOBGBTA500ML001	BIOBGBTB500ML001	500 mL	74*74*190	20	
BIOBGBTA1L001	BIOBGBTB1L001	1 L	98*98*220	25	
BIOBGBTA2L001	BIOBGBTB2L001	2 L	114*114*286	16	48 mm regular cap
BIOBGBTA5L001	BIOBGBTB5L001	5 L	180*180*332	6	
BIOBGBTA10L001	BIOBGBTB10L001	10 L	240*240*361	4	80 mm regular cap

Bio Bag



Storage bottle with 2-port cap (no tubing)

Product code - sterile	Product code - non-sterile	Volume	Dimension L*W*H (mm)	Package	Cap
BIOBGBTA5ML002	BIOBGBTB5ML002	5 mL	36*36*60	200	
BIOBGBTA20ML002	BIOBGBTB20ML002	20 mL	36*36*80	200	20 mm 2-port cap, no tubing
BIOBGBTA50ML002	BIOBGBTB50ML002	50 mL	45*45*85	120	
BIOBGBTA125ML002	BIOBGBTB125ML002	125 mL	54*54*120	60	
BIOBGBTA250ML002	BIOBGBTB250ML002	250 mL	68*68*140	40	38 mm 2-port cap, no tubing
BIOBGBTA500ML002	BIOBGBTB500ML002	500 mL	74*74*190	20	
BIOBGBTA1L002	BIOBGBTB1L002	1 L	98*98*220	25	48 mm 2-port cap, no tubing
BIOBGBTA2L002	BIOBGBTB2L002	2 L	114*114*286	16	
BIOBGBTA5L002	BIOBGBTB5L002	5 L	180*180*332	6	80 mm 2-port cap, no tubing
BIOBGBTA10L002	BIOBGBTB10L002	10 L	240*240*361	4	



Bio Bag

Storage bottle with 3-port cap (no tubing)

Product code - sterile	Product code - non-sterile	Volume	Dimension L*W*H (mm)	Package	Cap
BIOBGBTA5ML003	BIOBGBTB5ML003	5 mL	36*36*60	200	
BIOBGBTA20ML003	BIOBGBTB20ML003	20 mL	36*36*80	200	20 mm 3-port cap, no tubing
BIOBGBTA50ML003	BIOBGBTB50ML003	50 mL	45*45*85	120	
BIOBGBTA125ML003	BIOBGBTB125ML003	125 mL	54*54*120	60	
BIOBGBTA250ML003	BIOBGBTB250ML003	250 mL	68*68*140	40	38 mm 3-port cap, no tubing
BIOBGBTA500ML003	BIOBGBTB500ML003	500 mL	74*74*190	20	
BIOBGBTA1L003	BIOBGBTB1L003	1 L	98*98*220	25	
BIOBGBTA2L003	BIOBGBTB2L003	2 L	114*114*286	16	
BIOBGBTA5L003	BIOBGBTB5L003	5 L	180*180*332	6	
BIOBGBTA10L003	BIOBGBTB10L003	10 L	240*240*361	4	80 mm 3-port cap, no tubing

Bio Bag



Storage bottle with 2-port cap (with welded tubing)

Product code - sterile	Product code - non-sterile	Volume	Dimension L*W*H (mm)	Cap	Line
BIOGBTB5ML008	BIOGBTB5ML008	5 ml	36*36*60		
BIOGBTB20ML008	BIOGBTB20ML008	20 ml	36*36*80	20 mm 2-port cap	Outer tubing 1: thermoplastic tubing, 1/8**1/4", 30 cm, plug Outer tubing 2: silicone tubing, 1/8**1/4", 10 cm, hydrophobic filter Inner tubing: silicone tubing, 1/8**1/4", bottoming
BIOGBTB50ML008	BIOGBTB50ML008	50 ml	45*45*85		
BIOGBTB125ML008	BIOGBTB125ML008	125 ml	54*54*120		Outer tubing 1: thermoplastic tubing, 1/4**7/16", 30 cm, plug
BIOGBTB250ML008	BIOGBTB250ML008	250 ml	68*68*140	38 mm 2-port cap	Outer tubing 2: silicone tubing, 1/4**7/16", 10 cm, hydrophobic filter Inner tubing: silicone tubing, 1/8**1/4", bottoming
BIOGBTB500ML008	BIOGBTB500ML008	500 ml	74*74*190		
BIOGBTB1L008	BIOGBTB1L008	1 L	98*98*220	48 mm 2-port cap	Outer tubing 1: thermoplastic tubing, 1/4**7/16", 30 cm, plug Outer tubing 2: silicone tubing, 1/4**7/16", 10 cm, hydrophobic filter Inner tubing: silicone tubing, 1/4**7/16", bottoming
BIOGBTB2L008	BIOGBTB2L008	2 L	114*114*286		
BIOGBTB5L008	BIOGBTB5L008	5 L	180*180*332	80 mm 2-port cap	Outer tubing 1: thermoplastic tubing, 3/8*5/8", 30 cm, plug Outer tubing 2: silicone tubing, 3/8*5/8", 15 cm, hydrophobic filter Inner tubing: silicone tubing, 1/4**7/16", bottoming



Storage bottle with 2-port cap (with silicone tubing)

Product code - sterile	Product code - non-sterile	Volume	Dimension L*W*H (mm)	Cap	Line
BIOBGBTA5ML009	BIOBGBTB5ML009	5 ml	36*36*60		
BIOBGBTA20ML009	BIOBGBTB20ML009	20 ml	36*36*80	20 mm 2-port cap	Outer tubing 1: silicone tubing with metal ring, 1/8"**1/4", 30 cm, MPC-Female Outer tubing 2: silicone tubing, 1/8"**1/4", 10 cm, hydrophobic filter Inner tubing: silicone tubing, 1/8"**1/4", bottoming
BIOBGBTA50ML009	BIOBGBTB50ML009	50 ml	45*45*85		
BIOBGBTA125ML009	BIOBGBTB125ML009	125 ml	54*54*120		Outer tubing 1: silicone tubing with metal ring, 1/4"**7/16", 30 cm, MPC-Female
BIOBGBTA250ML009	BIOBGBTB250ML009	250 ml	68*68*140	38 mm 2-port cap	Outer tubing 2: silicone tubing, 1/4"**7/16", 10 cm, hydrophobic filter Inner tubing: silicone tubing, 1/8"**1/4", bottoming
BIOBGBTA500ML009	BIOBGBTB500ML009	500 ml	74*74*190		
BIOBGBTA1L009	BIOBGBTB1L009	1 L	98*98*220		Outer tubing 1: silicone tubing with metal ring, 1/4"**7/16", 30 cm, MPC-Female
BIOBGBTA2L009	BIOBGBTB2L009	2 L	114*114*286	48 mm 2-port cap	Outer tubing 2: silicone tubing, 1/4"**7/16", 10 cm, hydrophobic filter Inner tubing: silicone tubing, 1/4"**7/16", bottoming
BIOBGBTA5L009	BIOBGBTB5L009	5 L	180*180*332	80 mm 2-port cap	Outer tubing 1: silicone tubing with metal ring, 3/8"**5/8", 30 cm, MPC-Female Outer tubing 2: silicone tubing, 3/8"**5/8", 15 cm, hydrophobic filter Inner tubing: silicone tubing, 1/4"**7/16", bottoming

Bio Bag



Storage bottle with 3-port cap (with welded tubing)

Product code - sterile	Product code - non-sterile	Volume	Dimension L*W*H (mm)	Cap	Line
BIOBGBTA5ML010	BIOBGBTB5ML010	5 ml	36*36*60		
BIOBGBTA20ML010	BIOBGBTB20ML010	20 ml	36*36*80	20 mm 3-port cap	Outer tubings 1 & 2: thermoplastic tubing, 1/8**1/4", 30 cm, plug Outer tubing 3: silicone tubing, 1/8**1/4", 10 cm, hydrophobic filter Inner tubing: silicone tubing, 1/8*1/4, bottoming
BIOBGBTA50ML010	BIOBGBTB50ML010	50 ml	45*45*85		
BIOBGBTA125ML010	BIOBGBTB125ML010	125 ml	54*54*120		Outer tubings 1 & 2: thermoplastic tubing, 1/4**7/16", 30 cm, plug
BIOBGBTA250ML010	BIOBGBTB250ML010	250 ml	68*68*140	38 mm 3-port cap	Outer tubing 3: silicone tubing, 1/4**7/16", 10 cm, hydrophobic filter Inner tubing: silicone tubing, 1/8*1/4, bottoming
BIOBGBTA500ML010	BIOBGBTB500ML010	500 ml	74*74*190		
BIOBGBTA1L010	BIOBGBTB1L010	1 L	98*98*220	48 mm 3-port cap	Outer tubings 1 & 2: thermoplastic tubing, 1/4**7/16", 30 cm, plug Outer tubing 3: silicone tubing, 1/4**7/16", 10 cm, hydrophobic filter Inner tubing: silicone tubing, 1/4**7/16", bottoming
BIOBGBTA2L010	BIOBGBTB2L010	2 L	114*114*286		
BIOBGBTA5L010	BIOBGBTB5L010	5 L	180*180*332	80 mm 3-port cap	Outer tubings 1 & 2: thermoplastic tubing, 3/8*5/8", 30 cm, plug Outer tubing 3: silicone tubing, 3/8*5/8", 15 cm, hydrophobic filter Inner tubing: silicone tubing, 1/4**7/16", bottoming



Storage bottle with 3-port cap (with silicone tubing)

Product code - sterile	Product code - non-sterile	Volume	Dimension L*W*H (mm)	Cap	Line
BIOBGBTA5ML011	BIOBGBTB5ML011	5 ml	36*36*60		
BIOBGBTA20ML011	BIOBGBTB20ML011	20 ml	36*36*80	20 mm 3-port cap	Outer tubing 1: silicone tubing with metal ring, 1/8**1/4", 30 cm, MPC-Female Outer tubing 2: silicone tubing, 1/8**1/4", 10 cm, hydrophobic filter Outer tubing 3: silicone tubing with metal ring, 1/8**1/4", 30 cm, MPC-Male Inner tubing: silicone tubing, 1/8**1/4", bottoming
BIOBGBTA50ML011	BIOBGBTB50ML011	50 ml	45*45*85		
BIOBGBTA125ML011	BIOBGBTB125ML011	125 ml	54*54*120		Outer tubing 1: silicone tubing with metal ring, 1/4**7/16", 30 cm, MPC-Female
BIOBGBTA250ML011	BIOBGBTB250ML011	250 ml	68*68*140	38 mm 3-port cap	Outer tubing 2: silicone tubing, 1/4**7/16", 10 cm, hydrophobic filter Outer tubing 3: silicone tubing with metal ring, 1/4**7/16", 30 cm, MPC-Male Inner tubing: silicone tubing, 1/8**1/4", bottoming
BIOBGBTA500ML011	BIOBGBTB500ML011	500 ml	74*74*190		
BIOBGBTA1L011	BIOBGBTB1L011	1 L	98*98*220		Outer tubing 1: silicone tubing with metal ring, 1/4**7/16", 30 cm, MPC-Female Outer tubing 2: silicone tubing, 1/4**7/16", 10 cm, hydrophobic filter Outer tubing 3: silicone tubing with metal ring, 1/4**7/16", 30 cm, MPC-Male Inner tubing: silicone tubing, 1/4**7/16", bottoming
BIOBGBTA2L011	BIOBGBTB2L011	2 L	114*114*286	48 mm 3-port cap	
BIOBGBTA5L011	BIOBGBTB5L011	5 L	180*180*332	80 mm 3-port cap	Outer tubing 1: silicone tubing with metal ring, 3/8*5/8", 30 cm, MPC-Female Outer tubing 2: silicone tubing, 3/8*5/8", 15 cm, hydrophobic filter Outer tubing 3: silicone tubing with metal ring, 3/8*5/8", 30 cm, MPC-Male Inner tubing: silicone tubing, 1/4**7/16", bottoming



Cap - no tubing



Product code - sterile	Product description	Line
BIOBGCAP20001	20 mm, regular	
BIOBGCAP38001	38 mm, regular	
BIOBGCAP48001	48 mm, regular	No port, no tubing
BIOBGCAP80001	80 mm, regular	
BIOBGCAP202001	20 mm, 2-port	2 ports, no tubing; 1/8" * 2, inner 1/8" * 2
BIOBGCAP382001	38 mm, 2-port	2 ports, no tubing; 1/4" × 2, inner 1/8" × 2
BIOBGCAP482001	48 mm, 2-port	2 ports, no tubing; 1/4"**2, inner 1/4"**2
BIOBGCAP802001	80 mm, 2-port	2 ports, no tubing; 1/4" * 2, inner 1/4" * 2
BIOBGCAP203001	20 mm, 3-port	3 ports, no tubing; 1/8"**3, inner 1/8"**2
BIOBGCAP383001	38 mm, 3-port	3 ports, no tubing; 1/4"**3, inner 1/8"**2
BIOBGCAP483001	48 mm, 3-port	3 ports, no tubing; 1/4"**3, inner 1/4"**2
BIOBGCAP803001	80 mm, 3-port	3 ports, no tubing; 1/4" * 3, inner 1/4" * 2

Product code - non-sterile	Product Description	Line
BIOBGCBP20001	20 mm, regular	
BIOBGCBP38001	38 mm, regular	
BIOBGCBP48001	48 mm, regular	No port, no tubing
BIOBGCBP80001	80 mm, regular	
BIOBGCBP202001	20 mm, 2-port	2 ports, no tubing; 1/8" * 2, inner 1/8" * 2
BIOBGCBP382001	38 mm, 2-port	2 ports, no tubing; 1/4" × 2, inner 1/8" × 2
BIOBGCBP482001	48 mm, 2-port	2 ports, no tubing; 1/4"**2, inner 1/4"**2
BIOBGCBP802001	80 mm, 2-port	2 ports, no tubing; 1/4" * 2, inner 1/4" * 2
BIOBGCBP203001	20 mm, 3-port	3 ports, no tubing; 1/8"**3, inner 1/8"**2
BIOBGCBP383001	38 mm, 3-port	3 ports, no tubing; 1/4"**3, inner 1/8"**2
BIOBGCBP483001	48 mm, 3-port	3 ports, no tubing; 1/4"**3, inner 1/4"**2
BIOBGCBP803001	80 mm, 3-port	3 ports, no tubing; 1/4" * 3, inner 1/4" * 2

Cap - with silicone tubing

Product code - sterile	Product code - non-sterile	Product Description	Line
BIOBGCAP202002	BIOBGCBP202002	20 mm, 2-port	Outer tubing 1: silicone tubing with metal ring, 1/8"**1/4", 30 cm, MPC-Female Outer tubing 2: silicone tubing, 1/8"**1/4", 10 cm, hydrophobic filter Inner tubing: silicone tubing, 1/8"**1/4", bottoming
BIOBGCAP382002	BIOBGCBP382002	38 mm, 2-port	Outer tubing 1: silicone tubing with metal ring, 1/4"**7/16", 30 cm, MPC-Female Outer tubing 2: silicone tubing, 1/4"**7/16", 10 cm, hydrophobic filter Inner tubing: silicone tubing, 1/8"**1/4", bottoming
BIOBGCAP482002	BIOBGCBP482002	48 mm, 2-port	Outer tubing 1: silicone tubing with metal ring, 1/4"**7/16", 30 cm, MPC-Female Outer tubing 2: silicone tubing, 1/4"**7/16", 10 cm, hydrophobic filter Inner tubing: silicone tubing, 1/4"**7/16", bottoming
BIOBGCAP802002	BIOBGCBP802002	80 mm, 2-port	Outer tubing 1: silicone tubing with metal ring, 1/4"**7/16", 30 cm, MPC-Female Outer tubing 2: silicone tubing, 1/4"**7/16", 10 cm, hydrophobic filter Inner tubing: silicone tubing, 1/4"**7/16", bottoming
BIOBGCAP203002	BIOBGCBP203002	20 mm, 3-port	Outer tubing 1: silicone tubing with metal ring, 1/8"**1/4", 30 cm, MPC-Female Outer tubing 2: silicone tubing, 1/8"**1/4", 10 cm, hydrophobic filter Outer tubing 3: silicone tubing with metal ring, 1/8"**1/4", 30 cm, MPC-Male Inner tubing: silicone tubing, 1/8"**1/4", bottoming
BIOBGCAP383002	BIOBGCBP383002	38 mm, 3-port	Outer tubing 1: silicone tubing with metal ring, 1/4"**7/16", 30 cm, MPC-Female Outer tubing 2: silicone tubing, 1/4"**7/16", 10 cm, hydrophobic filter Outer tubing 3: silicone tubing with metal ring, 1/4"**7/16", 30 cm, MPC-Male Inner tubing: silicone tubing, 1/8"**1/4", bottoming
BIOBGCAP483002	BIOBGCBP483002	48 mm, 3-port	Outer tubing 1: silicone tubing with metal ring, 1/4"**7/16", 30 cm, MPC-Female Outer tubing 2: silicone tubing, 1/4"**7/16", 10 cm, hydrophobic filter Outer tubing 3: silicone tubing with metal ring, 1/4"**7/16", 30 cm, MPC-Male Inner tubing: silicone tubing, 1/4"**7/16", bottoming
BIOBGCAP803002	BIOBGCBP803002	80 mm, 3-port	Outer tubing 1: silicone tubing with metal ring, 1/4"**7/16", 30 cm, MPC-Female Outer tubing 2: silicone tubing, 1/4"**7/16", 10 cm, hydrophobic filter Outer tubing 3: silicone tubing with metal ring, 1/4"**7/16", 30 cm, MPC-Male Inner tubing: silicone tubing, 1/4"**7/16", bottoming



Cap - with welder tubing

Product code - sterile	Product code - non-sterile	Product Description	Line
BIOBGCAP202003	BIOBGCBP202003	20 mm, 2-port	Outer tubing 1: thermoplastic tubing, 1/8**1/4", 30 cm, MPC-Female Outer tubing 2: silicone tubing, 1/8**1/4", 10 cm, hydrophobic filter Inner tubing: silicone tubing, 1/8**1/4", bottoming
BIOBGCAP382003	BIOBGCBP382003	38 mm, 2-port	Outer tubing 1: thermoplastic tubing, 1/4**7/16", 30 cm, MPC-Female Outer tubing 2: silicone tubing, 1/4**7/16", 10 cm, hydrophobic filter Inner tubing: silicone tubing, 1/8**1/4", bottoming
BIOBGCAP482003	BIOBGCBP482003	48 mm, 2-port	Outer tubing 1: thermoplastic tubing, 1/4**7/16", 30 cm, MPC-Female Outer tubing 2: silicone tubing, 1/4**7/16", 10 cm, hydrophobic filter Inner tubing: silicone tubing, 1/4**7/16", bottoming
BIOBGCAP802003	BIOBGCBP802003	80 mm, 2-port	Outer tubing 1: thermoplastic tubing, 1/4**7/16", 30 cm, MPC-Female Outer tubing 2: silicone tubing, 1/4**7/16", 10 cm, hydrophobic filter Inner tubing: silicone tubing, 1/4**7/16", bottoming
BIOBGCAP203003	BIOBGCBP20-3-003	20 mm, 3-port	Outer tubings 1 & 2: C-Flex tubing, 1/8**1/4", 30 cm, plug Outer tubing 3: silicone tubing, 1/8**1/4", 10 cm, hydrophobic filter Inner tubing: silicone tubing, 1/8**1/4", bottoming
BIOBGCAP383003	BIOBGCBP383003	38 mm, 3-port	Outer tubing 1: thermoplastic tubing, 1/4**7/16", 30 cm, MPC-Female Outer tubing 2: silicone tubing, 1/4**7/16", 10 cm, hydrophobic filter Outer tubing 3: thermoplastic tubing, 1/4**7/16", 30 cm, MPC-Male Inner tubing: silicone tubing, 1/8**1/4", bottoming
BIOBGCAP483003	BIOBGCBP483003	48 mm, 3-port	Outer tubing 1: thermoplastic tubing, 1/4**7/16", 30 cm, MPC-Female Outer tubing 2: silicone tubing, 1/4**7/16", 10 cm, hydrophobic filter Outer tubing 3: thermoplastic tubing, 1/4**7/16", 30 cm, MPC-Male Inner tubing: silicone tubing, 1/4**7/16", bottoming
BIOBGCAP803003	BIOBGCBP803003	80 mm, 3-port	Outer tubing 1: thermoplastic tubing, 1/4**7/16", 30 cm, MPC-Female Outer tubing 2: silicone tubing, 1/4**7/16", 10 cm, hydrophobic filter Outer tubing 3: thermoplastic tubing, 1/4**7/16", 30 cm, MPC-Male Inner tubing: silicone tubing, 1/4**7/16", bottoming



2D Storage Solution

2D Storage Bag

2D Storage bags are made of multi-layer co-extrusion films. The ship-typed integrated welded outlet helps to minimize residual liquid. The outlet is available in 1/8", 1/4" and 3/8" and can be connected to silicone and thermoplastic tubing. The combination of GVS 2D storage bags with single-use tubings can meet the requirements of different processes and liquids.

Features

- Volume range: 5 mL–50 L
- Wide applications: for collection of purified components, bulk solution storage, intermediate product storage, medium storage, etc.
- Highly customizable, and configurable with a variety of connectors, hoses, and functional units



2D Storage bags

Ordering information

3D Storage Solution

Circular Storage Bag

Made of multi-layer co-extrusion films, the sterile circular storage bags are guaranteed very low gas and steam permeability, excellent chemical compatibility and biocompatibility, and good heat seal strength. This ensures their safety in the storage and transportation of feed liquids in various biopharmaceutical processes. The standard circular storage bags are available in various types and specifications (50–500 L). With GVS single-use tubings, the product can meet the requirements of different processes and different liquids.

Product code	Matching type	Line 1	Line 2	Line 3	Film
BIOBGBBPR0050S003	Circular plastic bin 50L	100 cm ID3/8"OD5/8" thermoplastic tubing + plug	100 cm ID3/8"OD5/8" thermoplastic tubing + plug	30 cm ID1/4"OD7/16" thermoplastic tubing + needless sampling	Imported
BIOBGBBPR0050S004	Circular plastic bin 50L	100 cm ID3/8"OD5/8" platinum cured silicone tubing + female MPC	100 cm ID3/8"OD5/8" platinum cured silicone tubing + male MPC	30 cm ID1/4"OD7/16" platinum cured silicone tubing + needless sampling	Imported
BIOBGBBPR0050S005	Circular plastic bin 50L	100 cm ID3/8"OD5/8" thermoplastic tubing + plug	100 cm ID3/8"OD5/8" thermoplastic tubing + plug	30 cm ID1/4"OD7/16" thermoplastic tubing + needless sampling	Domestic
BIOBGBBPR0050S006	Circular plastic bin 50L	100 cm ID3/8"OD5/8" platinum cured silicone tubing + female MPC	100 cm ID3/8"OD5/8" platinum cured silicone tubing + male MPC	30 cm ID1/4"OD7/16" platinum cured silicone tubing + needless sampling	Domestic
BIOBGBBPR0100S003	Circular plastic bin 100L	100 cm ID3/8"OD5/8" thermoplastic tubing + plug	100 cm ID3/8"OD5/8" thermoplastic tubing + plug	30 cm ID1/4"OD7/16" thermoplastic tubing + needless sampling	Imported
BIOBGBBPR0100S004	Circular plastic bin 100L	100 cm ID3/8"OD5/8" platinum cured silicone tubing + female MPC	100 cm ID3/8"OD5/8" platinum cured silicone tubing + male MPC	30 cm ID1/4"OD7/16" platinum cured silicone tubing + needless sampling	Imported
BIOBGBBPR0100S005	Circular plastic bin 100L	100 cm ID3/8"OD5/8" thermoplastic tubing + plug	100 cm ID3/8"OD5/8" thermoplastic tubing + plug	30 cm ID1/4"OD7/16" thermoplastic tubing + needless sampling	Domestic
BIOBGBBPR0100S006	Circular plastic bin 100L	100 cm ID3/8"OD5/8" platinum cured silicone tubing + female MPC	100 cm ID3/8"OD5/8" platinum cured silicone tubing + male MPC	30 cm ID1/4"OD7/16" platinum cured silicone tubing + needless sampling	Domestic
BIOBGBBPR0200S003	Circular plastic bin 200L	100 cm ID3/8"OD5/8" thermoplastic tubing + plug	100 cm ID3/8"OD5/8" thermoplastic tubing + plug	30 cm ID1/4"OD7/16" thermoplastic tubing + needless sampling	Imported
BIOBGBBPR0200S004	Circular plastic bin 200L	100 cm ID3/8"OD5/8" platinum cured silicone tubing + female MPC	100 cm ID3/8"OD5/8" platinum cured silicone tubing + male MPC	30 cm ID1/4"OD7/16" platinum cured silicone tubing + needless sampling	Imported
BIOBGBBPR0200S005	Circular plastic bin 200L	100 cm ID3/8"OD5/8" thermoplastic tubing + plug	100 cm ID3/8"OD5/8" thermoplastic tubing + plug	30 cm ID1/4"OD7/16" thermoplastic tubing + needless sampling	Domestic
BIOBGBBPR0200S006	Circular plastic bin 200L	100 cm ID3/8"OD5/8" platinum cured silicone tubing + female MPC	100 cm ID3/8"OD5/8" platinum cured silicone tubing + male MPC	30 cm ID1/4"OD7/16" platinum cured silicone tubing + needless sampling	Domestic
BIOBGBBPR0300S003	Circular plastic bin 300L	100 cm ID1/2"OD3/4" platinum cured silicone tubing + female MPX	100 cm ID1/2"OD3/4" platinum cured silicone tubing + male MPX	30 cm ID1/4"OD7/16" platinum cured silicone tubing + needless sampling	Imported
BIOBGBBPR0300S004	Circular plastic bin 300L	100 cm ID1/2"OD3/4" thermoplastic tubing + plug	100 cm ID1/2"OD3/4" thermoplastic tubing + plug	30 cm ID1/4"OD7/16" thermoplastic tubing + needless sampling	Imported
BIOBGBBPR0300S005	Circular plastic bin 300L	100 cm ID1/2"OD3/4" platinum cured silicone tubing + female MPX	100 cm ID1/2"OD3/4" platinum cured silicone tubing + male MPX	30 cm ID1/4"OD7/16" platinum cured silicone tubing + needless sampling	Domestic
BIOBGBBPR0300S006	Circular plastic bin 300L	100 cm ID1/2"OD3/4" thermoplastic tubing + plug	100 cm ID1/2"OD3/4" thermoplastic tubing + plug	30 cm ID1/4"OD7/16" thermoplastic tubing + needless sampling	Domestic
BIOBGBBPR0500S003	Circular plastic bin 500L	100 cm ID1/2"OD3/4" platinum cured silicone tubing + female MPX	100 cm ID1/2"OD3/4" platinum cured silicone tubing + male MPX	30 cm ID1/4"OD7/16" platinum cured silicone tubing + needless sampling	Imported
BIOBGBBPR0500S004	Circular plastic bin 500L	100 cm ID1/2"OD3/4" thermoplastic tubing + plug	100 cm ID1/2"OD3/4" thermoplastic tubing + plug	30 cm ID1/4"OD7/16" thermoplastic tubing + needless sampling	Imported
BIOBGBBPR0500S005	Circular plastic bin 500L	100 cm ID1/2"OD3/4" platinum cured silicone tubing + female MPX	100 cm ID1/2"OD3/4" platinum cured silicone tubing + male MPX	30 cm ID1/4"OD7/16" platinum cured silicone tubing + needless sampling	Domestic
BIOBGBBPR0500S006	Circular plastic bin 500L	100 cm ID1/2"OD3/4" thermoplastic tubing + plug	100 cm ID1/2"OD3/4" thermoplastic tubing + plug	30 cm ID1/4"OD7/16" thermoplastic tubing + needless sampling	Domestic

Cubic Storage Bag: Matching Cubic Plastic Bin

Made of multi-layer co-extrusion films, the sterile cubic storage bags are guaranteed very low gas and steam permeability, excellent chemical compatibility and biocompatibility, and good heat seal strength. This ensures their safety in the storage and transportation of feed liquids in various biopharmaceutical processes. The standard cubic storage bags are available in various types and specifications (50–1000 L). With GVS single-use tubings, the product can meet the requirements of different processes and different liquids.

Ordering information

Product code	Matching type	Line 1	Line 2	Line 3	Film
BIOBGBBPC0100S003	cubic collapsible plastic bin 250 L	100 cm ID3/8"OD5/8" platinum cured silicone tubing + female MPC	100 cm ID3/8"OD5/8" platinum cured silicone tubing + male MPC	30 cm ID1/4"OD7/16" platinum cured silicone tubing + needleless sampling	Imported
BIOBGBBPC0100S004	cubic collapsible plastic bin 250 L	100 cm ID3/8"OD5/8" thermoplastic tubing + plug	100 cm ID3/8"OD5/8" thermoplastic tubing + plug	30 cm ID1/4"OD7/16" thermoplastic tubing + needleless sampling	Imported
BIOBGBBPC0100S005	cubic collapsible plastic bin 250 L	100 cm ID3/8"OD5/8" platinum cured silicone tubing + female MPC	100 cm ID3/8"OD5/8" platinum cured silicone tubing + male MPC	30 cm ID1/4"OD7/16" platinum cured silicone tubing + needleless sampling	Domestic
BIOBGBBPC0100S006	cubic collapsible plastic bin 250 L	100 cm ID3/8"OD5/8" thermoplastic tubing + plug	100 cm ID3/8"OD5/8" thermoplastic tubing + plug	30 cm ID1/4"OD7/16" thermoplastic tubing + needleless sampling	Domestic
BIOBGBBPC0250S003	cubic collapsible plastic bin 250 L	100 cm ID3/8"OD5/8" platinum cured silicone tubing + female MPC	100 cm ID3/8"OD5/8" platinum cured silicone tubing + male MPC	30 cm ID1/4"OD7/16" platinum cured silicone tubing + needleless sampling	Imported
BIOBGBBPC0250S004	cubic collapsible plastic bin 250 L	100 cm ID3/8"OD5/8" thermoplastic tubing + plug	100 cm ID3/8"OD5/8" thermoplastic tubing + plug	30 cm ID1/4"OD7/16" thermoplastic tubing + needleless sampling	Imported
BIOBGBBPC0250S005	cubic collapsible plastic bin 250 L	100 cm ID3/8"OD5/8" platinum cured silicone tubing + female MPC	100 cm ID3/8"OD5/8" platinum cured silicone tubing + male MPC	30 cm ID1/4"OD7/16" platinum cured silicone tubing + needleless sampling	Domestic
BIOBGBBPC0250S006	cubic collapsible plastic bin 250 L	100 cm ID3/8"OD5/8" thermoplastic tubing + plug	100 cm ID3/8"OD5/8" thermoplastic tubing + plug	30 cm ID1/4"OD7/16" thermoplastic tubing + needleless sampling	Domestic
BIOBGBBPC1000S003	cubic collapsible plastic bin 1000 L	100 cm ID3/4"OD1" platinum cured silicone tubing + TC50	100 cm ID3/4"OD1" platinum cured silicone tubing + TC50	30 cm ID1/4"OD7/16" platinum cured silicone tubing + needleless sampling	Imported
BIOBGBBPC1000S005	cubic collapsible plastic bin 1000 L	100 cm ID3/4"OD1" platinum cured silicone tubing + TC50	100 cm ID3/4"OD1" platinum cured silicone tubing + TC50	30 cm ID1/4"OD7/16" platinum cured silicone tubing + needleless sampling	Domestic
BIOBGCPC0050S003	C series cubic plastic tank 50 L	100 cm ID3/8"OD5/8" platinum cured silicone tubing + female MPC	100 cm ID3/8"OD5/8" platinum cured silicone tubing + male MPC	30 cm ID1/4"OD7/16" platinum cured silicone tubing + needleless sampling	Imported
BIOBGCPC0050S007	C series cubic plastic tank 50 L	100 cm ID3/8"OD5/8" thermoplastic tubing + plug	100 cm ID3/8"OD5/8" thermoplastic tubing + plug	30 cm ID1/4"OD7/16" thermoplastic tubing + needleless sampling	Imported
BIOBGCPC0050S005	C series cubic plastic tank 50 L	100 cm ID3/8"OD5/8" platinum cured silicone tubing + female MPC	100 cm ID3/8"OD5/8" platinum cured silicone tubing + male MPC	30 cm ID1/4"OD7/16" platinum cured silicone tubing + needleless sampling	Domestic
BIOBGCPC0050S008	C series cubic plastic tank 50 L	100 cm ID3/8"OD5/8" thermoplastic tubing + plug	100 cm ID3/8"OD5/8" thermoplastic tubing + plug	30 cm ID1/4"OD7/16" thermoplastic tubing + needleless sampling	Domestic
BIOBGCPC0100S003	C series cubic plastic tank 100 L	100 cm ID3/8"OD5/8" platinum cured silicone tubing + female MPC	100 cm ID3/8"OD5/8" platinum cured silicone tubing + male MPC	30 cm ID1/4"OD7/16" platinum cured silicone tubing + needleless sampling	Imported
BIOBGCPC0100S007	C series cubic plastic tank 100 L	100 cm ID3/8"OD5/8" thermoplastic tubing + plug	100 cm ID3/8"OD5/8" thermoplastic tubing + plug	30 cm ID1/4"OD7/16" thermoplastic tubing + needleless sampling	Imported
BIOBGCPC-0100-S005	C series cubic plastic tank 100 L	100 cm ID3/8"OD5/8" platinum cured silicone tubing + female MPC	100 cm ID3/8"OD5/8" platinum cured silicone tubing + male MPC	30 cm ID1/4"OD7/16" platinum cured silicone tubing + needleless sampling	Domestic
BIOBGCPC0100S008	C series cubic plastic tank 100 L	100 cm ID3/8"OD5/8" thermoplastic tubing + plug	100 cm ID3/8"OD5/8" thermoplastic tubing + plug	30 cm ID1/4"OD7/16" thermoplastic tubing + needleless sampling	Domestic
BIOBGCPC0200S003	C series cubic plastic tank 200 L	100 cm ID3/8"OD5/8" platinum cured silicone tubing + female MPC	100 cm ID3/8"OD5/8" platinum cured silicone tubing + male MPC	30 cm ID1/4"OD7/16" platinum cured silicone tubing + needleless sampling	Imported
BIOBGCPC0200S007	C series cubic plastic tank 200 L	100 cm ID3/8"OD5/8" thermoplastic tubing + plug	100 cm ID3/8"OD5/8" thermoplastic tubing + plug	30 cm ID1/4"OD7/16" thermoplastic tubing + needleless sampling	Imported
BIOBGCPC0200S005	C series cubic plastic tank 200 L	100 cm ID3/8"OD5/8" platinum cured silicone tubing + female MPC	100 cm ID3/8"OD5/8" platinum cured silicone tubing + male MPC	30 cm ID1/4"OD7/16" platinum cured silicone tubing + needleless sampling	Domestic
BIOBGCPC0200S008	C series cubic plastic tank 200 L	100 cm ID3/8"OD5/8" thermoplastic tubing + plug	100 cm ID3/8"OD5/8" thermoplastic tubing + plug	30 cm ID1/4"OD7/16" thermoplastic tubing + needleless sampling	Domestic

Product code	Matching type	Line 1	Line 2	Line 3	Film
BIOBGBSPC0100S003	S series cubic plastic tank 100 L	100 cm ID3/8"OD5/8" platinum cured silicone tubing + female MPC	100 cm ID3/8"OD5/8" platinum cured silicone tubing + male MPC	30 cm ID1/4"OD7/16" platinum cured silicone tubing + needleless sampling	Imported
BIOBGBSPC0100S007	S series cubic plastic tank 100 L	100 cm ID3/8"OD5/8" thermoplastic tubing + plug	100 cm ID3/8"OD5/8" thermoplastic tubing + plug	30 cm ID1/4"OD7/16" thermoplastic tubing + needleless sampling	Imported
BIOBGBSPC0100S005	S series cubic plastic tank 100 L	100 cm ID3/8"OD5/8" platinum cured silicone tubing + female MPC	100 cm ID3/8"OD5/8" platinum cured silicone tubing + male MPC	30 cm ID1/4"OD7/16" platinum cured silicone tubing + needleless sampling	Domestic
BIOBGBSPC0100S008	S series cubic plastic tank 100 L	100 cm ID3/8"OD5/8" thermoplastic tubing + plug	100 cm ID3/8"OD5/8" thermoplastic tubing + plug	30 cm ID1/4"OD7/16" thermoplastic tubing + needleless sampling	Domestic
BIOBGBSPC0200S003	S series cubic plastic tank 200 L	100 cm ID3/8"OD5/8" platinum cured silicone tubing + female MPC	100 cm ID3/8"OD5/8" platinum cured silicone tubing + male MPC	30 cm ID1/4"OD7/16" platinum cured silicone tubing + needleless sampling	Imported
BIOBGBSPC0200S007	S series cubic plastic tank 200 L	100 cm ID3/8"OD5/8" thermoplastic tubing + plug	100 cm ID3/8"OD5/8" thermoplastic tubing + plug	30 cm ID1/4"OD7/16" thermoplastic tubing + needleless sampling	Imported
BIOBGBSPC0200S005	S series cubic plastic tank 200 L	100 cm ID3/8"OD5/8" platinum cured silicone tubing + female MPC	100 cm ID3/8"OD5/8" platinum cured silicone tubing + male MPC	30 cm ID1/4"OD7/16" platinum cured silicone tubing + needleless sampling	Domestic
BIOBGBSPC0200-008	S series cubic plastic tank 200 L	100 cm ID3/8"OD5/8" thermoplastic tubing + plug	100 cm ID3/8"OD5/8" thermoplastic tubing + plug	30 cm ID1/4"OD7/16" thermoplastic tubing + needleless sampling	Domestic
BIOBGBSPC0500S003	S series cubic plastic tank 500 L	100 cm ID1/2"OD3/4" platinum cured silicone tubing + female MPX	100 cm ID1/2"OD3/4" platinum cured silicone tubing + male MPX	30 cm ID1/4"OD7/16" platinum cured silicone tubing + needleless sampling	Imported
BIOBGBSPC0500S007	S series cubic plastic tank 500 L	100 cm ID1/2"OD3/4" thermoplastic tubing + plug	100 cm ID1/2"OD3/4" thermoplastic tubing + plug	30 cm ID1/4"OD7/16" thermoplastic tubing + needleless sampling	Imported
BIOBGBSPC0500S005	S series cubic plastic tank 500 L	100 cm ID1/2"OD3/4" platinum cured silicone tubing + female MPX	100 cm ID1/2"OD3/4" platinum cured silicone tubing + male MPX	30 cm ID1/4"OD7/16" platinum cured silicone tubing + needleless sampling	Domestic
BIOBGBSPC0500S008	S series cubic plastic tank 500 L	100 cm ID1/2"OD3/4" thermoplastic tubing + plug	100 cm ID1/2"OD3/4" thermoplastic tubing + plug	30 cm ID1/4"OD7/16" thermoplastic tubing + needleless sampling	Domestic



Cubic Storage Bag: Matching Cubic Stainless Steel Tank

Made of multi-layer co-extrusion films, the sterile cubic storage bags are guaranteed very low gas and steam permeability, excellent chemical compatibility and biocompatibility, and good heat seal strength. This ensures their safety in the storage and transportation of feed liquids in various biopharmaceutical processes. The standard cubic storage bags are available in various types and specifications (50–1000 L). With GVS single-use tubings, the product can meet the requirements of different processes and different liquids.

Ordering information

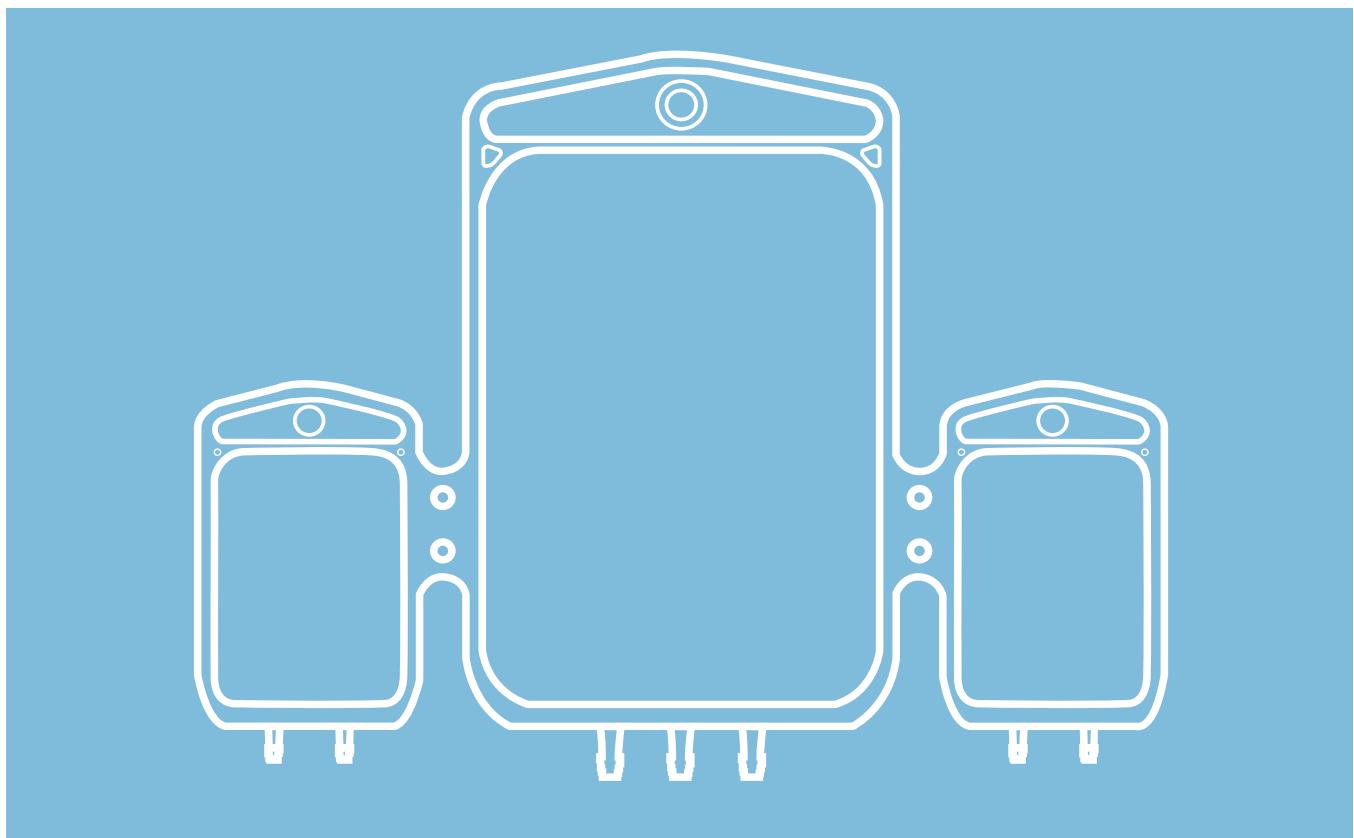
Product code	Matching type	Line 1	Line 2	Line 3	Film
BIOBGBBSC0100S003	cubic stainless steel tank 100 L	100 cm ID3/8"OD5/8" platinum cured silicone tubing + female MPC	100 cm ID3/8"OD5/8" platinum cured silicone tubing + male MPC	30 cm ID1/4"OD7/16" platinum cured silicone tubing + needless sampling	Imported
BIOBGBBSC0100S004	cubic stainless steel tank 100 L	100 cm ID3/8"OD5/8" thermoplastic tubing + plug	100 cm ID3/8"OD5/8" thermoplastic tubing + plug	30 cm ID1/4"OD7/16" thermoplastic tubing + needless sampling	Imported
BIOBGBBSC0100S005	cubic stainless steel tank 100 L	100 cm ID3/8"OD5/8" platinum cured silicone tubing + female MPC	100 cm ID3/8"OD5/8" platinum cured silicone tubing + male MPC	30 cm ID1/4"OD7/16" platinum cured silicone tubing + needless sampling	Domestic
BIOBGBBSC0100S006	cubic stainless steel tank 100 L	100 cm ID3/8"OD5/8" thermoplastic tubing + plug	100 cm ID3/8"OD5/8" thermoplastic tubing + plug	30 cm ID1/4"OD7/16" thermoplastic tubing + needless sampling	Domestic
BIOBGBBSC0200S003	cubic stainless steel tank 200 L	100 cm ID3/8"OD5/8" platinum cured silicone tubing + female MPC	100 cm ID3/8"OD5/8" platinum cured silicone tubing + male MPC	30 cm ID1/4"OD7/16" platinum cured silicone tubing + needless sampling	Imported
BIOBGBBSC0200S004	cubic stainless steel tank 200 L	100 cm ID3/8"OD5/8" thermoplastic tubing + plug	100 cm ID3/8"OD5/8" thermoplastic tubing + plug	30 cm ID1/4"OD7/16" thermoplastic tubing + needless sampling	Imported
BIOBGBBSC0200S005	cubic stainless steel tank 200 L	100 cm ID3/8"OD5/8" platinum cured silicone tubing + female MPC	100 cm ID3/8"OD5/8" platinum cured silicone tubing + male MPC	30 cm ID1/4"OD7/16" platinum cured silicone tubing + needless sampling	Domestic
BIOBGBBSC0200S006	cubic stainless steel tank 200 L	100 cm ID3/8"OD5/8" thermoplastic tubing + plug	100 cm ID3/8"OD5/8" thermoplastic tubing + plug	30 cm ID1/4"OD7/16" thermoplastic tubing + needless sampling	Domestic
BIOBGBBSC0500S003	cubic stainless steel tank 500 L	100 cm ID1/2"OD3/4" platinum cured silicone tubing + female MPX	100 cm ID1/2"OD3/4" platinum cured silicone tubing + male MPX	30 cm ID1/4"OD7/16" platinum cured silicone tubing + needless sampling	Imported
BIOBGBBSC0500S004	cubic stainless steel tank 500 L	100 cm ID1/2"OD3/4" thermoplastic tubing + plug	100 cm ID1/2"OD3/4" thermoplastic tubing + plug	30 cm ID1/4"OD7/16" thermoplastic tubing + needless sampling	Imported
BIOBGBBSC0500S005	cubic stainless steel tank 500 L	100 cm ID1/2"OD3/4" platinum cured silicone tubing + female MPX	100 cm ID1/2"OD3/4" platinum cured silicone tubing + male MPX	30 cm ID1/4"OD7/16" platinum cured silicone tubing + needless sampling	Domestic
BIOBGBBSC0500S006	cubic stainless steel tank 500 L	100 cm ID1/2"OD3/4" thermoplastic tubing + plug	100 cm ID1/2"OD3/4" thermoplastic tubing + plug	30 cm ID1/4"OD7/16" thermoplastic tubing + needless sampling	Domestic
BIOBGBBSC1000S003	cubic stainless steel tank 1000 L	100 cm ID3/4"OD1" platinum cured silicone tubing + TC50	100 cm ID3/4"OD1" platinum cured silicone tubing + TC50	30 cm ID1/4"OD7/16" platinum cured silicone tubing + needless sampling	Imported
BIOBGBBSC1000S005	cubic stainless steel tank 1000 L	100 cm ID3/4"OD1" platinum cured silicone tubing + TC50	100 cm ID3/4"OD1" platinum cured silicone tubing + TC50	30 cm ID1/4"OD7/16" platinum cured silicone tubing + needless sampling	Domestic
BIOBGBBSC2000S003	cubic stainless steel tank 2000 L	100 cm ID3/4"OD1" platinum cured silicone tubing + TC50	100 cm ID3/4"OD1" platinum cured silicone tubing + TC50	30 cm ID1/4"OD7/16" platinum cured silicone tubing + needless sampling	Imported
BIOBGBBSC2000S005	cubic stainless steel tank 2000 L	100 cm ID3/4"OD1" platinum cured silicone tubing + TC50	100 cm ID3/4"OD1" platinum cured silicone tubing + TC50	30 cm ID1/4"OD7/16" platinum cured silicone tubing + needless sampling	Domestic
BIOBGBBSC3000S003	cubic stainless steel tank 1000 L	100 cm ID3/4"OD1" platinum cured silicone tubing + TC50	100 cm ID3/4"OD1" platinum cured silicone tubing + TC50	30 cm ID1/4"OD7/16" platinum cured silicone tubing + needless sampling	Imported
BIOBGBBSC3000S005	cubic stainless steel tank 1000 L	100 cm ID3/4"OD1" platinum cured silicone tubing + TC50	100 cm ID3/4"OD1" platinum cured silicone tubing + TC50	30 cm ID1/4"OD7/16" platinum cured silicone tubing + needless sampling	Domestic

RNase-free Disposable Consumables

mRNA is a new-generation technology platform that is expected to change traditional ways of vaccines and monoclonal anti-body development and manufacturing. Due to its short R&D cycle, simple production process, strong immunogenicity, and high safety, mRNA has the potential to be widely applied in various fields such as vaccines for infectious diseases, tumor immunology, and recombinant protein. Even though mRNA vaccines are booming, the mRNA drugs are in low profile. To date, there is no particularly welcomed mRNA drug, mainly due to the difficulty of mRNA drug development - the higher the purity, the stronger the druggability.

However, due to ubiquitous RNase in the environment, mRNA is easily contaminated, which is why Moderna has invested heavily in building a nuclease-free laboratory (RNase-free Lab). The construction costs are as high as tens of millions of dollars; and with subsequent operations and maintenance, the cost requires an investment of hundreds of millions of dollars. This is possibly why the development of many mRNA drugs is stalled.

Ribonuclease (RNase) is a class of nucleic acid hydrolases that are widely found in animals and plants. Due to its "ubiquitous" nature, it is necessary to take multiple and complex clean-ups to eliminate the effects of RNase in the mRNA production process, which greatly reduces production efficiency. Meanwhile, the process validation and verification of RNase removal are also time-consuming and labor-intensive. Therefore, RNase-free disposable consumables are highly welcomed by mRNA manufacturers using single-use bioprocess technology for production. In addition, the RNase level within those consumables shall be inspected before release and can be verified post-use without damage.



As a supplier of bioprocess disposable equipment and consumables for bioprocessing, GVS has launched an innovative design and comprehensive solution of master bag + double satellite bags for the first time with 100% RNase/DNase inspection and release of products as well as customer verification.



Features

- Innovative design of master bag + double satellite bags (enabling 100% individual inspection of RNase-/DNase-free bags)
- Identical material/production environment of the master bag and satellite bag
- Satellite bag-1 (QC release): for RNase inspection prior to product release
- Satellite bag-2 (customer verification): for customer verification test before/after use
- Different sizes/models of bioprocess disposable products (Storage bags + Bioreactor bags + Cell bags, etc.)
- High-standard production environment control and monthly RNase monitoring

Nuclease-free Single-Use Consumables	
Single-use storage bottle	Batch inspection
Single-use 2D storage bag	Individual/hybrid/batch inspection
Single-use 3D storage bag	Individual/hybrid/batch inspection
Single-use mixing bag	Individual/hybrid/batch inspection
Single-use cell bag/mixing bag	Individual/hybrid/batch inspection
Single-use bioreactor bag	Individual/hybrid/batch inspection

DNase-free/
RNase-free/
Nuclease-free
(DNase-free & RNase-free)



Ordering information

DNase-free product code	RNase-free product code	Nuclease-free product code	Volume	Product name	Matching type	Package
BIOBGBTA5ML001D	BIOBGBTA5ML001R	BIOBGBTA5ML001N	5 ml	5 ml single-use storage bottle		200
BIOBGBTA20ML001D	BIOBGBTA20ML001R	BIOBGBTA20ML001N	20 ml	20 ml single-use storage bottle		200
BIOBGBTA50ML001D	BTA50ML001R	BIOBGBTA50ML001N	50 ml	50 ml single-use storage bottle		120
BIOBGBTA125ML001D	BTA125ML001R	BIOBGBTA125ML001N	125 ml	125 ml single-use storage bottle		60
BIOBGBTA250ML001D	BTA250ML001R	BIOBGBTA250ML001N	250 ml	250 ml single-use storage bottle	Regular cap	40
BIOBGBTA500ML001D	BTA500ML001R	BIOBGBTA500ML001N	500 ml	500 ml single-use storage bottle		20
BIOBGBTA1L001D	BIOBGBTA1L001R	BIOBGBTA1L001N	1L	1 L single-use storage bottle		25
BIOBGBTA2L001D	BIOBGBTA2L001R	BIOBGBTA2L001N	2L	2 L single-use storage bottle		16
BIOBGBTA5ML002D	BIOBGBTA5ML002R	BIOBGBTA5ML002N	5 ml	5 ml single-use storage bottle		200
BIOBGBTA20ML002D	BIOBGBTA20ML002R	BIOBGBTA20ML002N	20 ml	20 ml single-use storage bottle		200
BIOBGBTA50ML002D	BIOBGBTA50ML002R	BIOBGBTA50ML002N	50 ml	50 ml single-use storage bottle		120
BIOBGBTA125ML002D	BIOBGBTA125ML002R	BIOBGBTA125ML002N	125 ml	125 ml single-use storage bottle		60
BIOBGBTA250ML002D	BIOBGBTA250ML002R	BIOBGBTA250ML002N	250 ml	250 ml single-use storage bottle	2-port cap	40
BIOBGBTA500ML002D	BIOBGBTA500ML002R	BIOBGBTA500ML002N	500 ml	500 ml single-use storage bottle		20
BIOBGBTA1L002D	BIOBGBTA1L002R	BIOBGBTA1L002N	1 L	1 L single-use storage bottle		25
BIOBGBTA2L002D	BIOBGBTA2L002R	BIOBGBTA2L002N	2 L	2 L single-use storage bottle		16
BIOBGBTA5ML003D	BIOBGBTA5ML003R	BIOBGBTA5ML003N	5 ml	5 ml single-use storage bottle		200
BIOBGBTA20ML003D	BIOBGBTA20ML003R	BIOBGBTA20ML003N	20 ml	20 ml single-use storage bottle		200
BIOBGBTA50ML003D	BIOBGBTA50ML003R	BIOBGBTA50ML003N	50 ml	50 ml single-use storage bottle		120
BIOBGBTA125ML003D	BIOBGBTA125ML003R	BIOBGBTA125ML003N	125 ml	125 ml single-use storage bottle		60
BIOBGBTA250ML003D	BIOBGBTA250ML003R	BIOBGBTA250ML003N	250 ml	250 ml single-use storage bottle	3-port cap	40
BIOBGBTA500ML003D	BIOBGBTA500ML003R	BIOBGBTA500ML003N	500 ml	500 ml single-use storage bottle		20
BIOBGBTA1L003D	BIOBGBTA1L003R	BIOBGBTA1L003N	1 L	1 L single-use storage bottle		25
BIOBGBTA2L003D	BIOBGBTA2L003R	BIOBGBTA2L003N	2 L	2 L single-use storage bottle		16

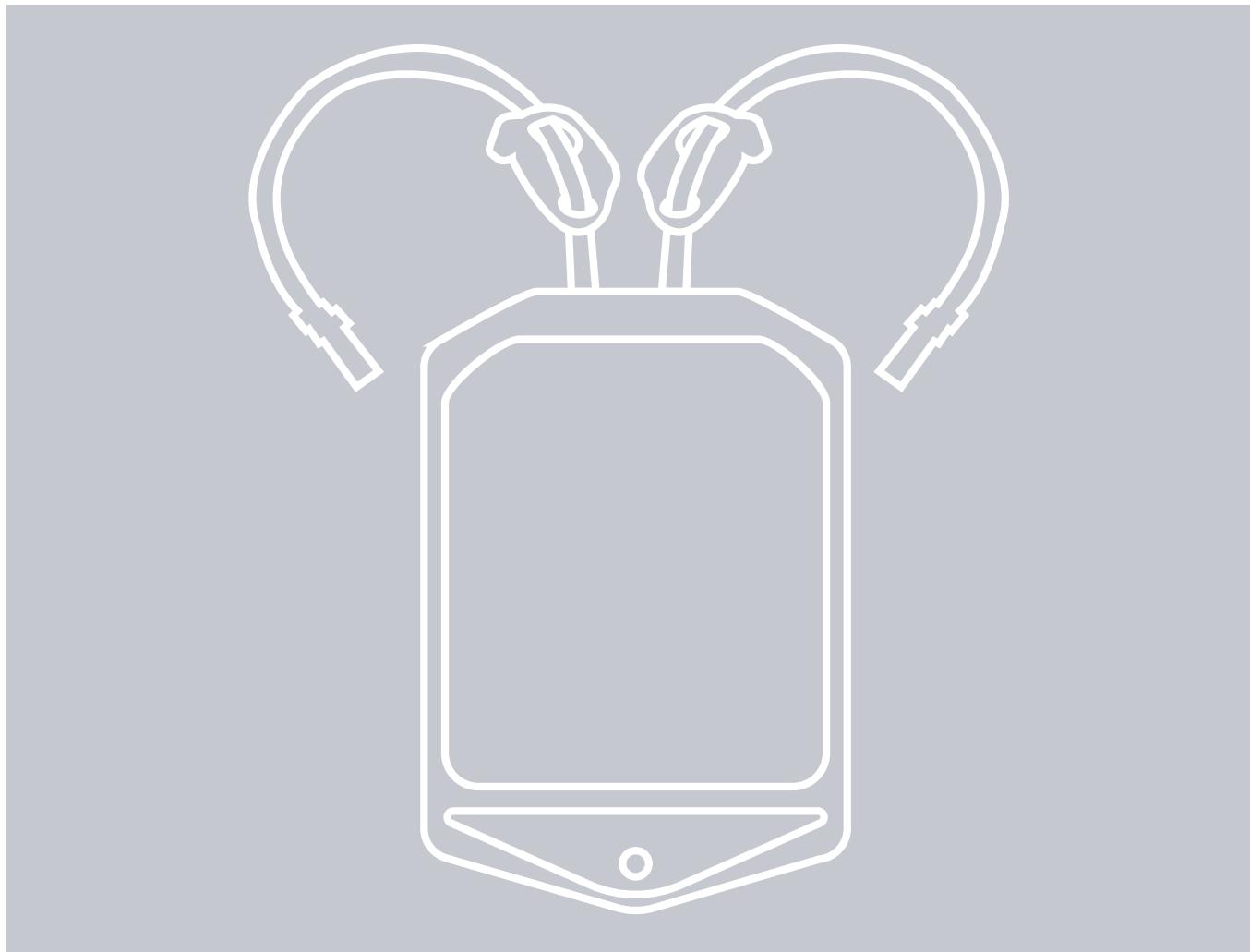
DNase-free product code	RNase-free product code	Nuclease-free product code	Volume	Line
BIOBGBD0001S003	BIOBGBR0001S003	BIOBGBN0001S003	1 L	<p>50 ml satellite bag</p> <p>20 cm ID1/8"**OD1/4" platinum cured silicone tubing + female Luer</p> <p>30 cm ID1/4" * OD7/16" Platinum 50 platinum cured silicone tubing + AseptiQuik® G connector</p> <p>30 cm ID1/4" * OD7/16" Platinum 50 platinum cured silicone tubing + AseptiQuik® G connector</p> <p>20 cm ID1/4"**OD7/16" C-Flex thermoplastic tubing + needleless sampling</p>
BIOBGBD0002S003	BIOBGBR0002S003	BIOBGBN0002S003	2 L	
BIOBGBD0005S003	BIOBGBR0005S003	BIOBGBN0005S003	5 L	
BIOBGBD0010S003	BIOBGBR0010S003	BIOBGBN0010S003	10 L	<p>50 ml satellite bag</p> <p>20 cm ID1/8"**OD1/4" platinum cured silicone tubing + female Luer</p> <p>30 cm ID3/8" * OD5/8" Platinum 50 platinum cured silicone tubing + AseptiQuik® G connector</p> <p>30 cm ID3/8" * OD5/8" Platinum 50 platinum cured silicone tubing + AseptiQuik® G connector</p> <p>20 cm ID1/4"**OD7/16" C-Flex thermoplastic tubing + needleless sampling</p>
BIOBGBD0020S003	BIOBGBR0020S003	BIOBGBN0020S003	20 L	
BIOBGBD0050S003	BIOBGBR0050S003	BIOBGBN0050S003	50 L	
BIOBGBD0001S004	BIOBGBR0001S004	BIOBGBN0001S004	1 L	<p>50 ml satellite bag</p> <p>10 cm ID1/8"**OD1/4" platinum cured silicone tubing+ 10 cm ID1/8"**OD1/4" C-Flex thermoplastic tubing + female Luer</p> <p>30 cm ID1/4" * OD7/16" Platinum 50 platinum cured silicone tubing + female MPC</p> <p>30 cm ID1/4" * OD7/16" C-Flex thermoplastic tubing + male MPC</p> <p>20 cm ID1/4"**OD7/16" C-Flex thermoplastic tubing + plug</p>
BIOBGBD0002S004	BIOBGBR0002S004	BIOBGBN0002S004	2 L	
BIOBGBD0005S004	BIOBGBR0005S004	BIOBGBN0005S004	5 L	
BIOBGBD0010S004	BIOBGBR0010S004	BIOBGBN0010S004	10 L	<p>50 ml satellite bag</p> <p>10 cm ID1/8"**OD1/4" platinum cured silicone tubing + 10 cm ID1/8"**OD1/4" C-Flex thermoplastic tubing + female Luer</p> <p>30 cm ID3/8" * OD5/8" Platinum 50 platinum cured silicone tubing + female MPC</p> <p>30 cm ID3/8" * OD5/8" C-Flex thermoplastic tubing + female MPC</p> <p>20 cm ID1/4"**OD7/16" C-Flex thermoplastic tubing + plug</p>
BIOBGBD0020S004	BIOBGBR0020S004	BIOBGBN0020S004	20 L	
BIOBGBD0050S004	BIOBGBR0050S004	BIOBGBN0050S004	50 L	

DNase-free product code	RNase-free product code	Nuclease-free product code	Volume	Line
BIOBGBD0001S005	BIOBGBR0001S005	BIOBGBN0001S005	1 L	
				50 ml satellite bag 10 cm ID1/8" * OD1/4" platinum cured silicone tubing + 10 cm ID1/8" * OD1/4" C-Flex thermoplastic tubing + female Luer 30 cm ID1/4" * OD7/16" Platinum 50 platinum cured silicone tubing + TC25 quick connector 30 cm ID1/4" * OD7/16" C-Flex thermoplastic tubing + TC25 quick connector 20 cm ID1/4" * OD7/16" C-Flex thermoplastic tubing + needleless sampling
BIOBGBD0002S005	BIOBGBR0002S005	BIOBGBN0002S005	2 L	
BIOBGBD0005S005	BIOBGBR0005S005	BIOBGBN0005S005	5 L	
BIOBGBD0010S005	BIOBGBR0010S005	BIOBGBN0010S005	10 L	
				50 ml satellite bag 10 cm ID1/8" * OD1/4" platinum cured silicone tubing + 10 cm ID1/8" * OD1/4" C-Flex thermoplastic tubing + female Luer 30 cm ID3/8" * OD5/8" Platinum 50 platinum cured silicone tubing + TC25 quick connector 30 cm ID3/8" * OD5/8" C-Flex thermoplastic tubing + TC25 quick connector 20 cm ID1/4" * OD7/16" C-Flex thermoplastic tubing + needleless sampling
BIOBGBD0020S005	BIOBGBR0020S005	BIOBGBN0020S005	20 L	
BIOBGBD0050S005	BIOBGBR0050S005	BIOBGBN0050S005	50 L	

Sterile Sampling System

Product sampling is necessary and critical for cell culture and other operations in biopharmaceutical processes. Samples collected through Sampling Bags can be used to determine critical purity attributes, such as sterility, endotoxin levels, bioburden, and important cell culture parameters including metabolites, nutrient levels, pH, and osmolarity.

Sterile Sampling Systems provides a pre-assembled sampling solution. It is specially designed for sampling operations at various stages of biopharmaceutical processes such as in-process monitoring of buffer storage, medium preparation, product collection and analysis. To mitigate the risk of residual contamination and ensure the safety of bio-process, the product is sterilized by irradiation prior to delivery.



Features

- Types of sampling container: bags and bottles
- Volume range: sampling bag 50 mL to 1 L, sampling bottle 20 mL to 250 mL
- 2 mm needle, covers a variety of liquid sampling needs in the entire bio-process
- The material of the liquid contact layer of both the sampling bags (ULDPE) and sampling bottles (PC) complies with bio-pharmaceutical requirements
- High transparency and excellent compatibility
- Overmolded needles and tubings for assurance of airtightness and sterility
- Adequate validation documents to ensure safety in use
- Operating temperature range: sampling bag – 80 ° C to 60 ° C, sampling bottle – 80 ° C to 121 ° C
- Maximum operating pressure: single-needle, single-bag products: 0.5 bar; single-needle, 5-bag products: 0.3 bar
- Customization available

Validation Documents

- 100% integrity testing
- USP<665>, Extractable testing
- USP <88> , Class VI plastics
- USP <87>, Cytotoxicity
- USP <788>, Particulate Matter in Injections
- USP<85>, Bacterial Endotoxins
- ISO 11137, Sterility testing
- ISO 10993-4, Hemolysis testing



Ordering information

Sampling bag

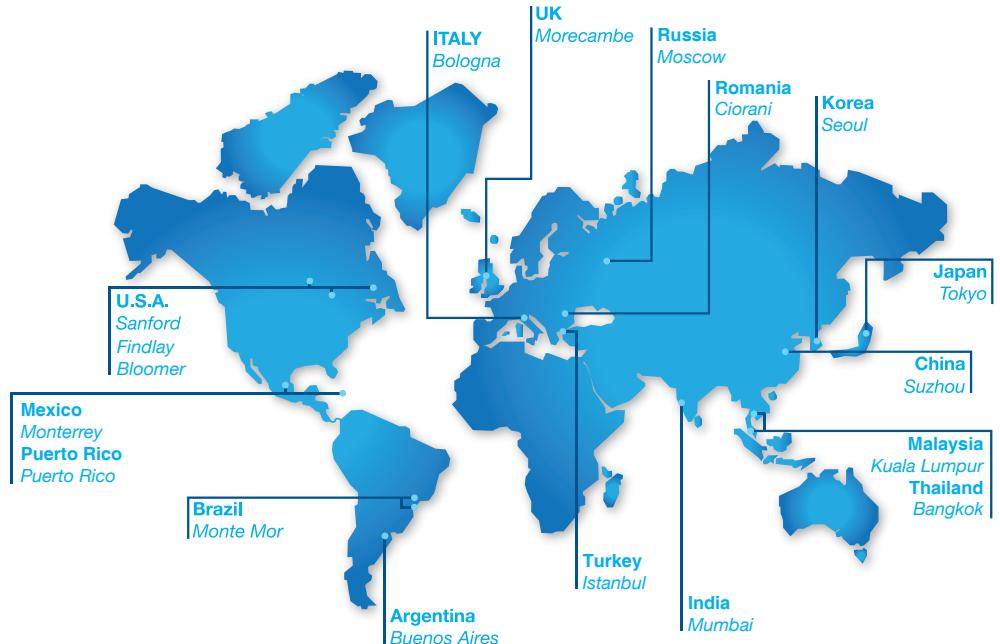
Product code	Volume	Inlet tubing	Outlet tubing
BIOBGBSX050S005	50 mL		
BIOBGBSX100S005	100 mL		Silicone tubing, ID 3.2 mm*OD 6.4 mm, 25 cm in length, with needleless sampling
BIOBGBSX250S005	250 mL	2 mm needle, silicone tubing, ID 3.2 mm*OD 6.4 mm, 25 cm in length, with a metal ring for sterile disconnection	
BIOBGBSX500S005	500 mL		
BIOBGBS0001S005	1000 mL		
BIOBGBSX050S006	2 × 50 mL	2 mm needle, silicone tubing, ID 3.2 mm*OD 6.4 mm, 25 cm in length, with a metal ring for sterile disconnection	Silicone tubing, ID 3.2 mm*OD 6.4 mm, 25 cm in length, with needleless sampling
BIOBGBSX100S006	2 × 100 mL		
BIOBGBSX250S006	2 × 250 mL		
BIOBGBSX050S007	3 × 50 mL	2 mm needle, silicone tubing, ID 3.2 mm*OD 6.4 mm, 25 cm in length, with a metal ring for sterile disconnection	Silicone tubing, ID 3.2 mm*OD 6.4 mm, 25 cm in length, with needleless sampling
BIOBGBSX100S007	3 × 100 mL		
BIOBGBSX250S007	3 × 250 mL		
BIOBGBSX050S008	5 × 50 mL	2 mm needle, silicone tubing, ID 3.2 mm*OD 6.4 mm, 25 cm in length, with a metal ring for sterile disconnection	Silicone tubing, ID 3.2 mm*OD 6.4 mm, 25 cm in length, with needleless sampling
BIOBGBSX100S008	5 × 100 mL		
BIOBGBSX250S008	5 × 250 mL		

Sampling bottle

Product code	Volume	Inlet tubing	Outlet tubing
BIOBGTSTGST037	20 mL		
BIOBGTSTGST038	50 mL	2 mm needle, silicone tubing, ID 3.2 mm*OD 6.4 mm, 25 cm in length, with metal ring for sterile disconnection	Silicone tubing, ID 3.2 mm*OD 6.4 mm, 25 cm in length, with vent filter
BIOBGTSTGST039	125 mL		
BIOBGTSTGST040	250 mL		
BIOBGTSTGST041	2 × 20 mL		
BIOBGTSTGST042	2 × 50 mL	2 mm needle, silicone tubing, ID 3.2 mm*OD 6.4 mm, 25 cm in length, with metal ring for sterile disconnection	Silicone tubing, ID 3.2 mm*OD 6.4 mm, 25 cm in length, with vent filter
BIOBGTSTGST043	2 × 125 mL		
BIOBGTSTGST044	2 × 250 mL		
BIOBGTSTGST045	3 × 20 mL	2 mm needle, silicone tubing, ID 3.2 mm*OD 6.4 mm, 25 cm in length, with metal ring for sterile disconnection	Silicone tubing, ID 3.2 mm*OD 6.4 mm, 25 cm in length, with vent filter
BIOBGTSTGST046	3 × 50 mL		
BIOBGTSTGST047	3 × 125 mL		
BIOBGTSTGST048	3 × 250 mL		
BIOBGTSTGST049	5 × 20 mL	2 mm needle, silicone tubing, ID 3.2 mm*OD 6.4 mm, 25 cm in length, with metal ring for sterile disconnection	Silicone tubing, ID 3.2 mm*OD 6.4 mm, 25 cm in length, with vent filter
BIOBGTSTGST050	5 × 50 mL		
BIOBGTSTGST051	5 × 125 mL		
BIOBGTSTGST052	5 × 250 mL		

Sampling unit

Product code	Volume	Inlet tubing	Outlet tubing
BIOBGTSTGST053	-	2 mm needle, silicone tubing, 3.2 mm (ID) × 6.4 mm (OD), 50 cm in length, with a metal ring for sterile disconnection and a male Luer and cap at the end	
BIOBGTSTGST054	-	2 mm needle, C-Flex tubing, 3.2 mm (ID) × 6.4 mm (OD), 50 cm in length, with a male Luer and cap at the end	
BIOBGTSTGST055	-	2 mm needle, PVC tubing, 3.2 mm (ID) × 6.4 mm (OD), 50 cm in length, with a male Luer and cap at the end	



WORLDWIDE

EUROPE

Italy Office
Headquarters
GVS S.p.A.
Via Roma 50
40069 Zola Predosa (BO) - Italy
Tel. +39 051 6176311
gvs@gvs.com

Russia
GVS Russia LLC.
Profsoyuznaya Street, 25-A, office 102
117418, Moscow
Russian Federation (Russia)
Tel. +7 495 0045077
gvsrussia@gvs.com

United Kingdom
GVS Filter Technology UK
Vickers Industrial Estate
Mellishaw Lane, Morecambe
Lancashire LA3 3EN
Tel. +44 (0) 1524 847600
gvsuk@gvs.com

Romania
GVS Microfiltrazione srl
Sat Ciorani de Sus 1E - Comuna Ciorani
Prahova Romania
Tel. (+40) 244 463044
gvsro@gvs.com

Turkey
GVS Türkiye
Nidakule Merdivenköy Mahallesi
Bora Sokak No:1 Kat:7 - 34732 Istanbul
Tel. +90 216 504 47 67
gvsturkey@gvs.com

ASIA

China
GVS Technology (Suzhou) Co., Ltd.
Fengqiao Civil-Run Sci-Tech Park,
602 Changjiang Road, S.N.D.
Suzhou, China 215129
Tel. +86 512 6661 9880
gvschina@gvs.com

GVS YIBO Medical Devices Co. Ltd.
17, Zhongshan East - Yuyao city,
315403 Zhejiang Province, China
Tel. +86 574 6257 5697

Japan
GVS Japan K.K.
KKD Building 4F, 7-10-12 Nishishinjuku
Shinjuku-ku, Tokyo 160-0023 Japan
Tel. +81 3 5937 1447
gvsjapan@gvs.com

Korea
GVS Korea Ltd
#315 Bricks Tower
368 Gyungchun-ro(Gaun-dong),
Namyangju-si, Gyeonggi-do,
Tel: +82 31 563 9873
gvskorea@gvs.com

India
GVS Filter India Pvt Ltd
Unit No 35 & 36 on First Floor
Ratna Jyot Industrial Premises Irla Lane,
Irla Vile Parle, Mumbai 400056, India
gvsindia@gvs.com

Malaysia
GVS Filtration Sdn.Bhd
Lot No 10F-2B, 10th Floor, Tower 5 @ PFCC
Jalan Puteri 1/2, Bandar Puteri
47100 Puchong, Selangor, Malaysia
Tel: +60 3 7800 0062
gvsmalaysia@gvs.com

Thailand
GVS Thailand
88 Ratchadaphisek Rd,
Office 10E03 - Khlong Toei,
Bangkok 10110
gvsthailand@gvs.com

AMERICA

U.S.A.
GVS North America
63 Community Drive
Sanford, ME 04073 - USA
Tel. +1 866 7361250
gvsusa@gvs.com

GVS Filtration Inc.
2150 Industrial Drive
Findlay, OH, 45840 - USA
Tel. +1.419.423.9040
gvsfiltration@gvs.com

2200 W 20th Avenue
Bloomer, WI 54724 - USA
Tel. +1.715.568.5944
gvsfiltration@gvs.com

Puerto Rico
GVS Puerto Rico, LLC
98 Carr 194 - Fajardo,
Puerto Rico, 00738-2988, USA
Tel. +1.787.355.4100
gvspuertorico@gvs.com

México
GVS Filter Technology de Mexico
Universal No. 550, Vynmsa Aeropuerto Apodaca
Industrial Park, Ciudad Apodaca, Nuevo León, C.P.
66626 - México
Tel. +52 81 2282 9003
gvsmex@gvs.com

Argentina
GVS Argentina S.A.
Avenida Rivadavia 13.332
1704 Ramos Mejía,
Buenos Aires - Argentina
Tel. +5411 48614750
lifesciences.ar@gvs.com

Brazil
GVS do Brasil Ltda.
Rodovia Conego Cyriaco Scaranello Pires 251
Jardim Chapadão, CEP 13193-580
Monte Mor (SP) - Brasil
Tel. +55 19 38797200
gvs@gvs.com.br

PRODUCT COLLECTION - Bio Bag

Copyright © 2025 GVS ® S.p.A.
All Right Reserved - Printed in Italy
Printing History: Version 26032025