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# MULTI-LAYERS CELL FACTORY

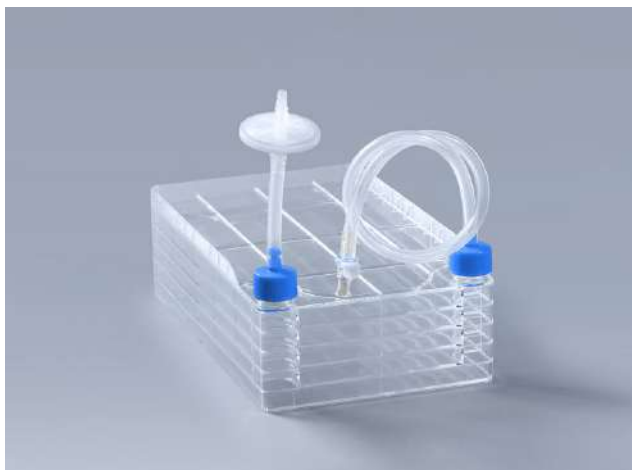
Multi-layers cell factory is the adherent cells' ideal choice for industrial mass production, laboratory operations, and large-scale cell cultures. Compared with other brands, GVS cell factory has good performance in culture.

💧 Polystyrene (PS) material meet USP VI medical grade. Combined with heat treatment process of injection molding, the toughness product is not easy to be damaged while transferring.

💧 Meanwhile, the product has undergone a three-level sealing test before delivery to ensure airtightness.

💧 The production processes in Class-C workshop to comply with ISO13485 by using professional automatic production line.

💧 With the perfect quality management system, each batch of products has been tested to ensure the consistency and stability of product performance between different batches.



# MULTI-LAYERS CELL FACTORY

💧 Double wild-mouth design improves the speed of filling and harvesting liquid, with hardly bubbles, Also conducive for gas exchange and high-density cell culture.

💧 Equipped with quick-fit seal cap (patented product), it can switch between airtight and breathable state in conventional environment (greenhouse) to meet the needs of dissolved oxygen and exhaust in different culture stages of cells and viruses.

💧 The cell-factory is equipped with a complete set of sealed pipeline system, which can be connected with the liquid inlet and receiving system pipeline, and the liquid input and output are carried out by peristaltic pumps or pressure systems.

## PRODUCT PARAMETER

### TC treated seal cap

Item N.	Layer	Culture area (cm <sup>2</sup> )	Length(mm)	Width(mm)	Height(mm)	pcs/pack	pcs/case
CELCUFG010001S	1	635	335	205.5	48	1	8
CELCUFG010002S	2	1270	335	205.5	65	1	8
CELCUFG010005S	5	3175	335	205.5	116	1	6
CELCUFG010010S	10	6350	335	205.5	201	1	4
CELCUFG010040S	40	25400	335	205.5	711	1	2

### TC treated vent cap

Item N.	Layer	Culture area (cm <sup>2</sup> )	Length(mm)	Width(mm)	Height(mm)	pcs/pack	pcs/case
CELCUFG011001S	1	635	335	205.5	48	1	8
CELCUFG011002S	2	1270	335	205.5	65	1	8
CELCUFG011005S	5	3175	335	205.5	116	1	6
CELCUFG011010S	10	6350	335	205.5	201	1	4
CELCUFG011040S	40	25400	335	205.5	711	1	2

### Non-TC treated seal cap

Item N.	Layer	Culture area (cm <sup>2</sup> )	Length(mm)	Width(mm)	Height(mm)	pcs/pack	pcs/case
CELCUFG012001S	1	-	335	205.5	48	1	8
CELCUFG012002S	2	-	335	205.5	65	1	8
CELCUFG012005S	5	-	335	205.5	116	1	6
CELCUFG012010S	10	-	335	205.5	201	1	4
CELCUFG012040S	40	-	335	205.5	711	1	2

### Non-TC treated Vent cap

Item N.	Layer	Culture area (cm <sup>2</sup> )	Length(mm)	Width(mm)	Height(mm)	pcs/pack	pcs/case
CELCUFG013001S	1	-	335	205.5	48	1	8
CELCUFG013002S	2	-	335	205.5	65	1	8
CELCUFG013005S	5	-	335	205.5	116	1	6
CELCUFG013010S	10	-	335	205.5	201	1	4
CELCUFG013040S	40	-	335	205.5	711	1	2

# ACCESSORIES OF CELL FACTORY



Item No.	CELCUFGA0C1003S	CELCUFGA0C2004S	CELCUFGA0C0005S	CELCUFGA0C0006S
Name	Seal cap	Vent cap	Liquid transfer cap	Small mouth transfer cap
Material	pp	pp	pp	pp
Irradiation	Yes	Yes	Yes	Yes
Package	1pcs/pack	1pcs/pack	2pcs/pack	2pcs/pack



Item No.	CELCUFGA0C2007S	CELCUFGA010080S	CELCUFGA010100S	CELCUFGA010160S
Name	plug	Big mouth air transfer cap kit	Large mouth liquid transfer kit	Big mouth tee kit
Material				
Irradiation	Yes			
Package	2pcs/pack	1set/pack	1set/pack	1set/pack



Item No.	CELCUFGA010060S	CELCUFGA010120S	CELCUFGA010140S
Name	Small mouth air transfer cap kit	Small mouth liquid transfer Kit	Small mouth tee kit
Material			
Irradiation			
Package	1set/pack	1set/pack	1set/pack



# ROLLER BOTTLE

Roller Bottle is a kind of disposable container which can meet the requirements of large-scale production of cells and tissues in both experimental and industrial production, and is widely used in the culture of animal and plant cells, bacteria, viruses and so on.

- Material: polystyrene (PS) ,which meet USP VI medical grade.
- Vacuum plasma surface treatment technology, enhance cell adhesion ability, can also be coated with collagen on the inner surface according to customer requirements.
- cGMP standard production, each batch passes the performance test, perfect quality system from the source to ensure product quality and consistency.
- Sterile, no endotoxin, no heat source, no cytotoxicity.
- Injection, pull and blow melding process, the product bottle mouth is smooth and round, the contact sealing with the cap is better, and the product residue is less.
- 5L cell bottle adopts two-stage design to increase the contact area. The contact area between the roller bottle and the rotating bottle machine adopts the frosted structure to increase the friction coefficient of the roller bottle and reduce the sliding phenomenon.



## PRODUCT PARAMETER

TC treated						
Item N.	Size	Culture area (ml)	Cap	Sterile	pcs/pack	pcs/case
CELCUFG023002S	2(roller bottle-Rib type)	1700	Seal cap	Yes	2	40
CELCUFG022002S	2	850	Seal cap	Yes	2	40
CELCUFG022005S	5	1750	Seal cap	Yes	1	20

Non-TC treated						
Item N.	Size	Culture area (ml)	Cap	Sterile	pcs/pack	pcs/case
CELCUFG020002S	2	25%	Seal cap	Yes	2	40
CELCUFG020005S	5	25%	Seal cap	Yes	1	20

# HIGH EFFICIENCY ERLLENMEYER FLASK



- **Material:** USPVI PETG material or Bisphenol A-free PC material.
- **Specification:** 3L, 5L.
- **Applications:** Widely used in microbiology, cell biology and other fields, can be used with large capacity culture shaker, mainly suitable for suspension cell culture.

## PRODUCT FEATURES

- Adopts imported injection, pull and blow molding process.
- According to cGMP standard production, no direct contact, product consistency is good.
- The breathable film area of shaker cap is larger than that of similar products, increasing the breathable capacity, suitable for high-density cell culture, the working volume can be filled to 60%-80% of the total volume, and the cell yield is higher.
- The bottle neck designed with a natural arc, and the handle is designed in accordance with the ergonomic design, which is convenient to take the bottle and transfer the liquid.
- Equipped with 0.2 $\mu$ m barrier breathable membrane, optional liquid transfer cap, or customized bottle cap suitable for liquid transfer according to customer process requirements.
- The product has passed sterility testing, endotoxin testing, DNase free, RNase free.

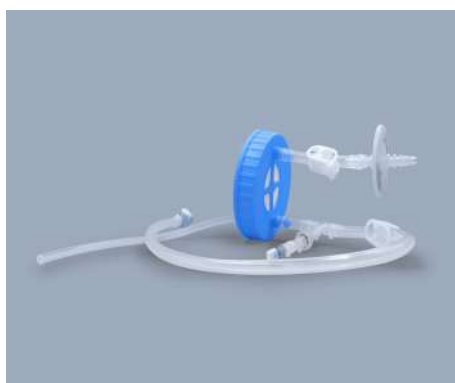
## PRODUCT PARAMETER

PC vent cap products						
Item N.	Spec	Height(mm)	Neck diameter(mm)	Bottom diameter(mm)	Working Volume(L)	pcs/case
CELCUFG043003S	3L	245	70	163	1.12L-1.96L	12
CELCUFG043005S	5L	281	90	230.26	2L-3.5L	6



# HIGH EFFICIENCY ERLLENMEYER FLASK

## ACCESSORIES OF HIGH EFFICIENCY E-FLASK



### PRODUCT PARAMETER OF EFFICIENT TRANSFER CAP

Name	Item No.	Min package	pcs/case
Transfer cap(Silicone tube, needleless sampler)	CELCUFGA010370S	1set/pack	10
Transfer cap(Silicone tube, needle sampler)	CELCUFGA010390S	1set/pack	10
Transfer cap(Silicone tube, no sampling pipeline)	CELCUFGA010410S	1set/pack	10
Transfer cap(Hot melt tube, needleless sampler)	CELCUFGA010430S	1set/pack	10
Transfer cap(Hot melt tube, needle sampler)	CELCUFGA010450S	1set/pack	10
Transfer cap(Hot melt tube, no sampling pipeline)	CELCUFGA010470S	1set/pack	10

### PRODUCT PARAMETER OF BI-DIRECTIONAL TRANSFER CAP

Name	Item No.	Min package	pcs/case
Two-way transfer cap(Silicone tube)	CELCUFGA010490S	1pcs/pack	10
Two-way transfer cap(Hot melt tube)	CELCUFGA010510S	1pcs/pack	10

### PRODUCT PARAMETER OF INVERTED TRANSFER CAP

Name	Item No.	Min package	pcs/case
Inverted transfer cap(Silicone tube)	CELCUFGA010530S	1pcs/pack	10
Inverted transfer cap(Hot melt tube)	CELCUFGA010550S	1pcs/pack	10

# CONICAL ERLLENMEYER FLASK



**Material:** USP VI PETG material or Bisphenol A-free PC material.

**Specification:** 125ml, 250ml, 500ml, 1000ml

**Application:** It is suitable for cell lines with high oxygen requirements. It is an economical cell culture tool that can be used to cultivate bacteria, fungi, animal and plant cells in suspension culture media, and can also be used for the preparation, mixing and storage of medium.

## PRODUCT FEATURES

- ▶ According to c-GMP standard production, no personal contact, great consistency
- ▶ The bottle cap using high-strength HOPE material and is designed with a PTFE hydrophobic and breathable membrane. After contact with liquid, it will not affect the sealing and ventilation effect of the breathable membrane
- ▶ The scale is clear and accurate, which is convenient for observing the medium capacity
- ▶ Aseptic packaging

## PRODUCT PARAMETER

PETG flask with vent cap

Item No.	Spec	Height(mm)	Neck diameter(mm)	Bottom diameter(mm)	Working Volume(L)	pcs/case
CELCUFG031125S	125ml	115.8	29.4	66	30	24
CELCUFG031250S	250ml	140.8	39	83	60	12
CELCUFG031500S	500ml	178.8	39	101	125	12
CELCUFG031001S	1000ml	216.8	39	127	500	12

PETG flask with seal cap

Item No.	Spec	Height(mm)	Neck diameter(mm)	Bottom diameter(mm)	Working Volume(L)	pcs/case
CELCUFG030125S	125ml	115.8	29.4	66	30	24
CELCUFG030250S	250ml	140.8	39	83	60	12
CELCUFG030500S	500ml	178.8	39	101	125	12
CELCUFG030001S	1000ml	216.8	39	127	500	12

PC flask with vent cap

Item No.	Spec	Height(mm)	Neck diameter(mm)	Bottom diameter(mm)	Working Volume(L)	pcs/case
CELCUFG033125S	125ml	115.8	29.4	66	30	24
CELCUFG033250S	250ml	140.8	39	83	60	12
CELCUFG033500S	500ml	178.8	39	101	125	12
CELCUFG033001S	1000ml	216.8	39	127	500	12

PC flask with seal cap

Item No.	Spec	Height(mm)	Neck diameter(mm)	Bottom diameter(mm)	Working Volume(L)	pcs/case
CELCUFG032125S	125ml	115.8	29.4	66	30	24
CELCUFG032250S	250ml	140.8	39	83	60	12
CELCUFG032500S	500ml	178.8	39	101	125	12
CELCUFG032001S	1000ml	216.8	39	127	500	12

## CLOSED SAMPLING SYSTEM

- Equipped with hot melt tube or silicone tube
- Equipped with MPC fitting or Luer fitting
- A broad range of tubes brands can be chosen, length and diameter can be customized.
- Liquid transfer tube IN 1/4", OD 7/16



### BOTTLE WITH TWO PORTS TUBING

Item No.	Volume	Pcs/pack	Pcs/case	Sterile	Material
CELCUFG036250S	250	1	12	Irradiation sterilization	PC
CELCUFG036500S	500	1	12	Irradiation sterilization	PC
CELCUFG036001S	1000	1	12	Irradiation sterilization	PC



### BOTTLE WITH THREE PORTS TUBING

Item No.	Volume	Pcs/pack	Pcs/case	Sterile	Material
CELCUFG037250S	250	1	12	Irradiation sterilization	PC
CELCUFG037500S	500	1	12	Irradiation sterilization	PC
CELCUFG037001S	1000	1	12	Irradiation sterilization	PC

# BAFFLED ERLLENMEYER FLASK



**Material:** PC, comply with USP VI standard.

**Specification:** 125ml, 250ml, 500ml, 1000ml

**Application:** Designed with baffles to increase fluid shear stress, reduce viscosity from cell-free DNA and cell debris. Provide effective agitation for more efficient aeration to increased oxygenation and mixing.

## PRODUCT FEATURES

- According to c-GMP standard production, no personal contact, great product consistency.
- The bottle cap using high-strength HDPE material and is designed with a PTFE hydrophobic and breathable membrane. After contact with liquid, it will not affect the sealing and ventilation effect of the breathable membrane.
- The scale is clear and accurate, which is convenient for observing the medium capacity.
- Aseptic packaging.

## PRODUCT PARAMETER

PC FLASK WITH SEAL CAP							
Item No.	Spec	Height(mm)	Neck diameter (mm)	Bottom diameter (mm)	Working volume (ml)	pcs/pack	pcs/case
CELCUFG034125S	125ml	115.8	29.4	66	30	1	24
CELCUFG034250S	250ml	140.8	39	83	60	1	12
CELCUFG034500S	500ml	178.8	39	101	125	1	12
CELCUFG034001S	1000ml	216.8	39	127	500	1	12

PC FLASK WITH VENT CAP							
Item No.	Spec	Height(mm)	Neck diameter (mm)	Bottom diameter (mm)	Working volume (ml)	pcs/pack	pcs/case
CELCUFG035125S	125ml	115.8	29.4	66	30	1	24
CELCUFG035250S	250ml	140.8	39	83	60	1	12
CELCUFG035500S	500ml	178.8	39	101	125	1	12
CELCUFG035001S	1000ml	216.8	39	127	500	1	12

# CELL CULTURE FLASK



- According to different surface treatment processes, cell culture flasks can be divided into hydrophilic cell culture flask and hydrophobic cell culture flask.

- Under the same environment, the clone formation rate and growth generation of cells cultured in the cell culture flasks have reached the index of similar international products.

- High quality polystyrene (PS) materials, USP VI medical grade.

- Plasma surface treatment can maximize adhesion of cells. Culturing for 48h, Vero cell growing condition is good as international famous culture flask.

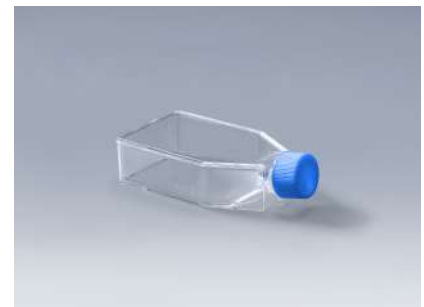
- Innovative angled neck design provides good pipette and cell scraper access.

- The whole production is in the C-class purification workshop. According to ISO13485 quality system management and the use of automatic equipment production, no direct contact with personnel, good product consistency, and small differences between batches.

- Sterile, DNase-free, RNase-free, endotoxin content <math><0.1</math> EU/ml.

- According to different culture requirements, there are vent cap and seal cap optional.

- Upgrade the flask angle and bottom arc design to easily obtain a complete growth surface and make subsequent operations easier.



# CELL CULTURE FLASK

## PRODUCT PARAMETER

TC treated flask with seal cap					
Item N.	Size	Culture area(cm <sup>2</sup> )	Cap Type	pcs/pack	pcs/case
CELCUFG006025S	25cm <sup>2</sup>	25	Seal cap	10	200
CELCUFG006075S	75cm <sup>2</sup>	75	Seal cap	5	100
CELCUFG006175S	175cm <sup>2</sup>	175	Seal cap	5	40
CELCUFG006225S	225cm <sup>2</sup>	225	Seal cap	5	25

TC treated flask with vent cap					
Item N.	Size	Culture area(cm <sup>2</sup> )	Cap Type	pcs/pack	pcs/case
CELCUFG004025S	25cm <sup>2</sup>	25	Vent cap	10	200
CELCUFG004075S	75cm <sup>2</sup>	75	Vent cap	5	100
CELCUFG004175S	175cm <sup>2</sup>	175	Vent cap	5	40
CELCUFG004225S	225cm <sup>2</sup>	225	Vent cap	5	25

Non-TC treated flask with seal cap					
Item N.	Size	Culture area(cm <sup>2</sup> )	Cap Type	pcs/pack	pcs/case
CELCUFG007025S	25cm <sup>2</sup>	-	Seal cap	10	200
CELCUFG007075S	75cm <sup>2</sup>	-	Seal cap	5	100
CELCUFG007175S	175cm <sup>2</sup>	-	Seal cap	5	40
CELCUFG007225S	225cm <sup>2</sup>	-	Seal cap	5	25

Non-TC treated flask with vent cap					
Item N.	Size	Culture area(cm <sup>2</sup> )	Cap Type	pcs/pack	pcs/case
CELCUFG005025S	25cm <sup>2</sup>	-	Vent cap	10	200
CELCUFG005075S	75cm <sup>2</sup>	-	Vent cap	5	100
CELCUFG005175S	175cm <sup>2</sup>	-	Vent cap	5	40
CELCUFG005225S	225cm <sup>2</sup>	-	Vent cap	5	25



# MULTI-WELL CELL CULTURE PLATES

-High quality polystyrene (PS) raw material,conforming to USP VI medical grade,excellent optical and chemical properties to ensure product stability and easy microscopic observation.

-Vacuum plasma surface treatment and uniform well to ensure well consistency.

-Cellular biocompatible (ISO:10993), sterile and endotoxin free.

-The lid well design ensure the gas exchange,reduce the risks of cross-contamination and evaporation.

-Alphanumeric marked wells,easy for identification.



## PRODUCT PARAMETER

Item No.	Spec	Single well surface area(cm <sup>2</sup> )	Recommended operating volume(ml/well)	Pcs/Case	Treat method	Packing
CELCUFG060006S	6wells	9.5	1.900-2.900	100	TC	Box
CELCUFG060012S	12wells	3.8	0.760-1.140	100	TC	Box
CELCUFG060024S	24wells	1.9	0.380-0.570	100	TC	Box
CELCUFG060048S	48wells	0.95	0.190-0.285	100	TC	Box
CELCUFG060096S	96wells	0.32	0.100-0.200	100	TC	Box
CELCUFG061006S	6wells	9.5	1.900-2.900	100	Non-TC	Box
CELCUFG061012S	12wells	3.8	0.760-1.140	100	Non-TC	Box
CELCUFG061024S	24wells	1.9	0.380-0.570	100	Non-TC	Box
CELCUFG061048S	48wells	0.95	0.190-0.285	100	Non-TC	Box
CELCUFG061096S	96wells	0.32	0.100-0.200	100	Non-TC	Box

# CELL CULTURE DISH

Cell culture dishes are made from polystyrene (PS) materials and are suitable for laboratory inoculation, marking, weighing, separation and treatment of tissue or cells.



## PRODUCT FEATURES

- Uniform thickness, no distortion for excellent observation
- Easy to grip with gear ring design, reduce contamination risk.
- The ring protrusion on the cover is closely combined with the bottom to facilitate storage and reduce medium volatilization
- Open petri dish lids with regular protrusions are available.
- Vacuum plasma surface treatment for ideal adhesive performance
- No pyrogen, endotoxin free, no cytotoxic.
- Sterile by Gamma irradiation, SAL<math>10^{-6}</math>.

## PRODUCT PARAMETER

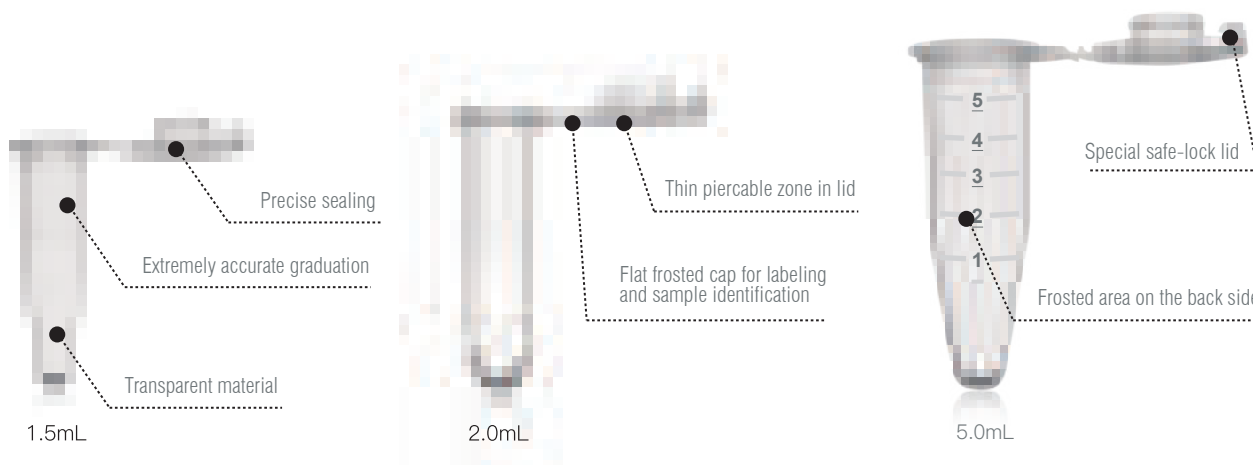
TC treatment				
Item No.	Size(mm)	Min Package	Sales package	pcs/case
CELCUFG070060S	60	10pcs/pack	50packs/case	500
CELCUFG070100S	100	10pcs/pack	30packs/case	300
CELCUFG070150S	150	5pcs/pack	20packs/case	100

Non - TC treatment				
Item No.	Size(mm)	Min Package	Sales package	pcs/case
CELCUFG071060S	60	10pcs/pack	50packs/case	500
CELCUFG071100S	100	10pcs/pack	30packs/case	300
CELCUFG071150S	150	5pcs/pack	20packs/case	100

# MICRO-CENTRIFUGE TUBE WITH SAFE-LOCK CAP

Made of high quality of transparent PP material, the new special design of safe lid can be fitted tightly with the rim of tube, and avoid accidental cap opening during centrifugation and thermal stress, especially applicable for expensive or hazardous samples, etc.. The thin membrane lid can be pierced, suitable for the toxic biological substances without generating aerosols.

- Open and close conveniently with one hand; Special safe-lock cap, tight-fitting lid provides a precise and safety sealing
- Thin membrane lid can be pierced by a syringe; Accurate molded graduation for volume estimation
- Flat lid and large frosted area on tube for easy sample identification
- Withstand centrifugation up to 15000xg(1.5ml&2ml)/25000xg(5ml); Guaranteed functionality between -86°C to 121°C



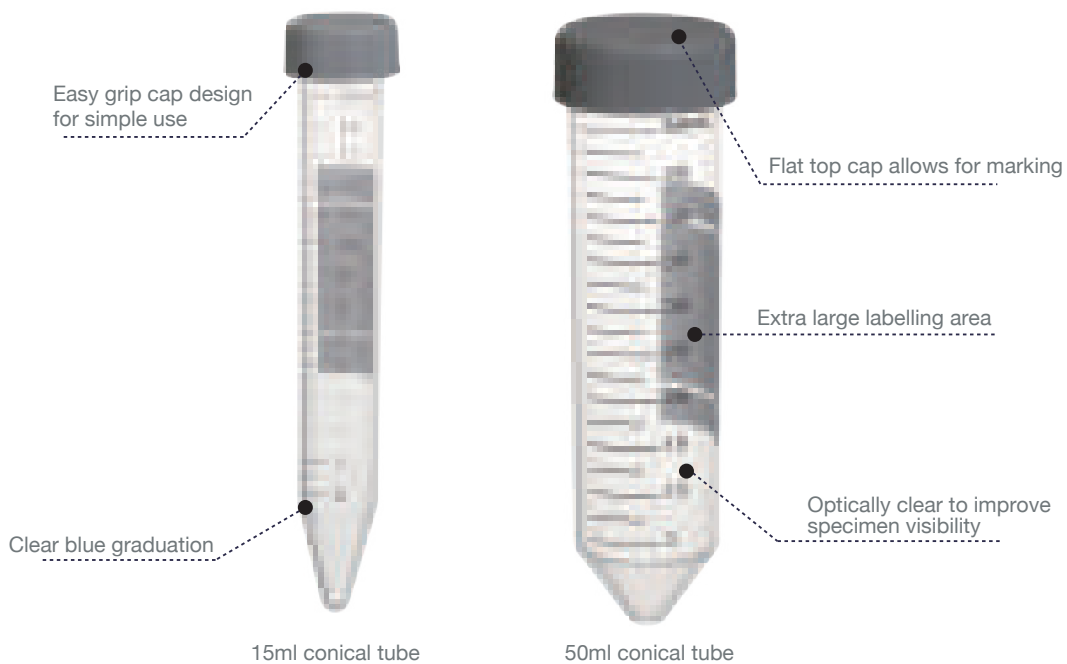
Item No.	Description	Packing
CELCUCG4610X1910S	1.5ml, Neutral, conical bottom, molded graduation from 0.5-1.5ml, sterile	500pcs/zip-lock bag, 5,000pcs/carton
CELCUCG4610X1911S	2.0ml, Neutral, round bottom, molded graduation from 0.5-2.0ml, sterile	500pcs/zip-lock bag, 5,000pcs/carton
CELCUCG4610X1908S	5ml, Neutral, conical bottom, molded graduation from 1-5ml, sterile	200pcs/zip-lock bag, 2,000pcs/carton

# CENTRIFUGE TUBE 95kpa



Intended for daily preparation, centrifugation, transportation, storage of solid and liquid specimens or reagents.

- Consistent biological and physical properties, High transparent, medical grade PP material with flat caps for marking
- RCF rating up to 12,000×g
- Easy-to-read printed graduations and a large white frosted area for labelling
- Leak-proof
- Packed in convenient durable racks or reusable Zip-lock bags



**15ml** DIM.17x120mm, Printed graduation range from 1.5 to 15ml, interval at 0.5ml

Item No.	Sterile	Packing
CELCUCG4610X1921S	Gamma	25pcs/rack,500pcs/carton
CELCUCG4610X1922S	Gamma	50pcs/zip-lock bag,500pcs/carton
CELCUCG4610X1923NS	Non sterile	50pcs/zip-lock bag,500pcs/carton
CELCUCG4610X1924S	E.O.	1pc/pack,50pcs/box,500pcs/carton

**50ml** DIM.30x115mm, Printed graduation range from 5 to 47.5ml, interval at 2.5ml

Item No.	Sterile	Packing
CELCUCG4610X1940S	Gamma	25pcs/rack,300pcs/carton
CELCUCG4610X1941S	Gamma	25pcs/zip-lock bag,500pcs/carton
CELCUCG4610X1942NS	Non sterile	25pcs/zip-lock bag,500pcs/carton
CELCUCG4610X1943S	E.O.	1pc/pack,50pcs/box,500pcs/carton



Zip-lock bag

50ml

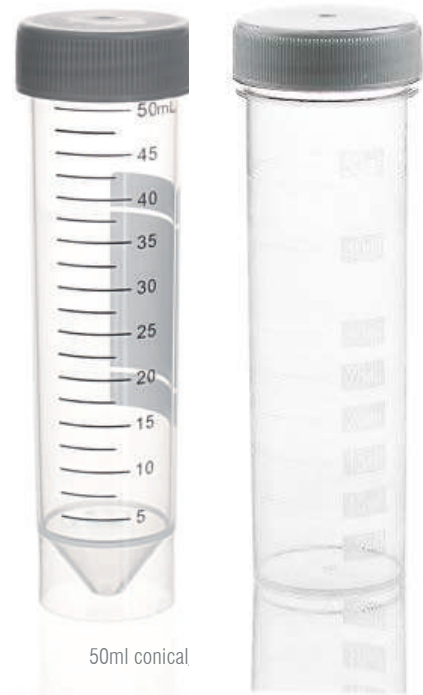
Self-standing, DIM.30x117mm, Printed graduation range from 5 to 47.5ml, interval at 2.5ml

Item No.	Sterile	Packing
CELCUCG4610X1981S	Gamma	25pcs/zip-lock bag,500pcs/carton
CELCUCG4610X1982NS	Non sterile	25pcs/zip-lock bag,500pcs/carton
CELCUCG4610X1983NS2	Non sterile	50pcs/bag,500pcs/carton
CELCUCG4610X1984S02	E.O.	1pc/pack,50pcs/box,500pcs/carton

50ml

Self-standing, DIM.30x107mm, Green cap  
Printed graduation range from 5 to 50ml, interval at 5ml

Item No.	Sterile	Packing
CELCUCG4610X1894NS8	Non sterile	50pcs/bag, 500pcs/carton
CELCUCG4610X1897NS8	Non sterile	25pcs/zip-lock bag, 500pcs/carton
CELCUCG4610X1895S08	E.O. sterile	50pcs/bag, 500pcs/carton
CELCUCG4610X1898S08	E.O. sterile	25pcs/zip-lock bag, 500pcs/carton
CELCUCG4610X1896S08	E.O. sterile	Individual flow pack, 50pcs/box, 500pcs/carton

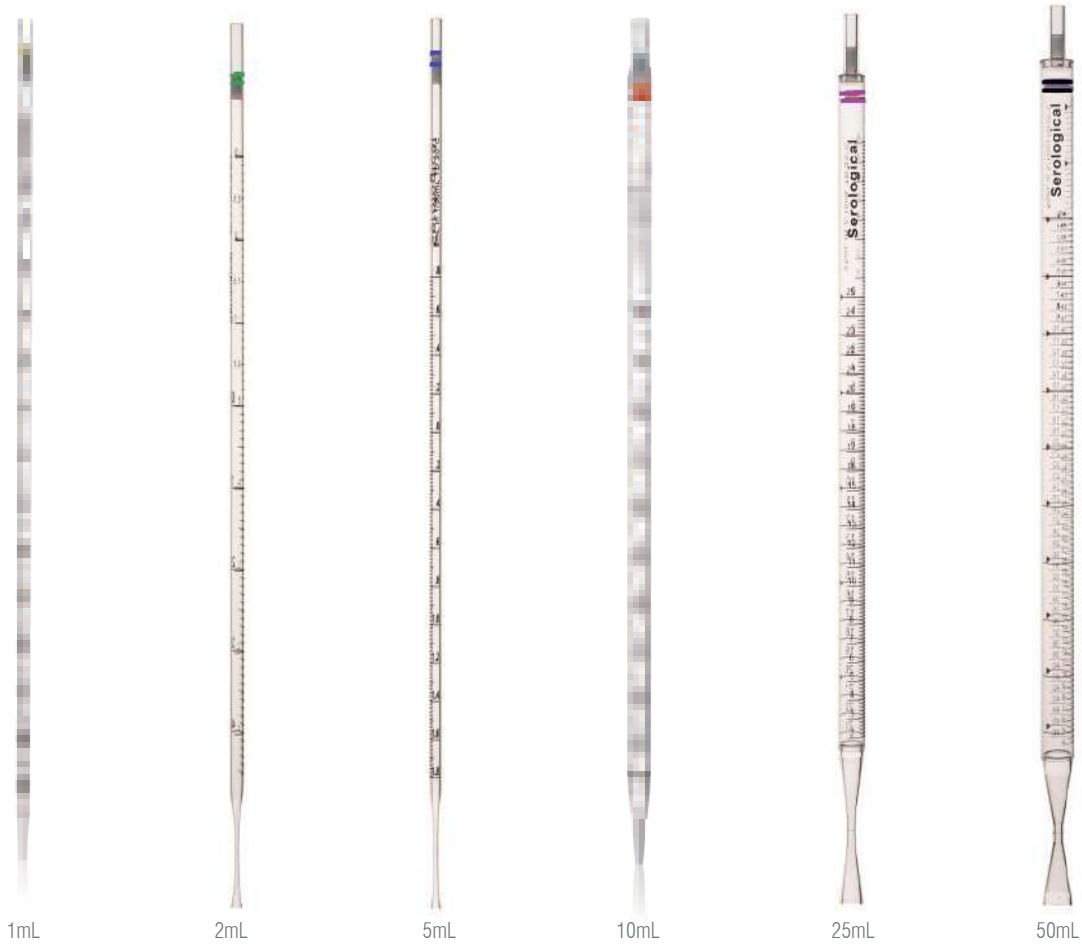


50ml conical

# SEROLOGICAL PIPETTES, PLASTIC

Designed for quantitatively transferring and dispensing exact volumes of liquid.

- Biologically inert PS, disposable
- Easy-to-read graduation, color-coded by size for identification
- Sterile and non-sterile are available



Item No.	Volume(ml)	Increments	Over fill capacity	BAND COLOR	Qty/Pk	Qty/Cs
CELCUMG011000101	1ml	1/100	0.2ml	Yellow 	50	1000
CELCUMG011000102	2ml	1/100	0.2ml	Green 	50	1000
CELCUMG011000103	5ml	1/10	2.5ml	Bule 	50	500
CELCUMG011000104	10ml	1/10	3ml	Red 	50	500
CELCUMG011000105	25ml	0.2	10ml	Purple 	25	250
CELCUMG011000106	50ml	0.5	5ml	Black 	20	200



# FLAKE MICROCARRIER

The flake carrier is a highly hydrophilic flake carrier, which uses vacuum plasma surface treatment technology and chemical grafting modification technology to enrich the flake carrier with more hydrophilic groups such as amino, hydroxyl or carboxyl groups, so that the cell adhesion performance of the carrier is stronger, which is not only suitable for subculture of Vero cells, HEK293 cells, CHO cells, BHK21 cells, ST cells, SF9/21 cells, etc., but also for CEF cells, PAM cells and CAR-T cells. Culture of primary cells.



## PRODUCT FEATURES

- Double surface hydrophilic modification technology, treatment strong cell adhesion performance.
- Efficiently and simply isolate cultures and cells, harvest products, and perform perfusion or continuous fed-batch culture.
- Autoclavable.
- Can be used in packed bed bioreactors, single-use bioreactors, culture vessels, shake flasks to provide sufficient surface area for cell growth. - High area/volume ratio, high cell density.
- Multiple tension structures ensure that nutrients in the medium are in full contact with cells, which is conducive to cell growth.

## PRODUCT PARAMETER

Item No.	Specification	Package	Bottle/case
CELCUFG090050S	Flake Microcarrier	50g/bottle	40
CELCUFG090250S	Flake Microcarrier	250g/bottle	20
CELCUFG090500S	Flake Microcarrier	500g/bottle	10
CELCUFG090001S	Flake Microcarrier	1kg/bottle	4

# SPHERICAL MICROCARRIER



Cells were cultured for 24h (100x)



Cells were cultured for 48h (100x)



Cells were cultured for 72h (100x)



Cells were cultured for 96h (100x)

The spherical carrier is a spherical microcarrier formed by bonding diethylaminochloroethane on agarose microspheres, which makes cells easy to attach. It is also the most widely used microcarrier for adherent cell suspension culture. , mainly used for the research and development and production of biological products. It is suitable for subculture of Vero cells, HEK293 cells, Mrc-S cells, CHO cells, BHK21 cells, MDCK cells, ST cells, Marc14S cells, SF9/21 cells, etc. It is also suitable for CEF cells, PAM cells, myeloma cells and culture of primary cells such as CAR-T cells.

## PRODUCT FEATURES

- Efficient and simple isolation of cultures and cells, harvesting of products, perfusion or continuous feeding.
- It can be cultured in large-scale stirred bioreactors, single-use bioreactors and shake flasks to provide sufficient surface area for cell growth.
- High area/volume ratio, high cell density.
- It is easy to enlarge the cells. The cells can be digested from the carrier and then inoculated into the new carrier, or the new carrier can be directly added to realize the "ball-to-ball" method to expand the culture.

Item No.	Specification	Package	Bottle/case
CELCUFG100050S	Spherical Microcarrier	50g/bottle	40
CELCUFG100250S	Spherical Microcarrier	250g/bottle	20
CELCUFG100500S	Spherical Microcarrier	500g/bottle	10
CELCUFG100001S	Spherical Microcarrier	1kg/bottle	4

# SQUARE MEDIA BOTTLE

## APPLICATIONS

Square media bottles have excellent gas barrier properties for storage and sampling of active pharmaceutical ingredients and bulk intermediates, and are also ideal for the preparation and storage of buffers, serum, culture fluids, or long-term storage of pH-sensitive liquids. The bottle is sterile and shatterproof with ergonomic square design, easier to use.



- Made of polyester (PET, PETG) with polypropylene cap.
- It is produced by injection stretch blow molding process, which has stronger gas barrier ability, high gloss of the bottle body, smooth inner and outer walls, the solution does not hang on the wall.
- Light weight, impact resistance, material can withstand  $-70\text{ }^{\circ}\text{C}$  low temperature, chemical resistance, good stability.
- High transparency, and the bottle body has a molded scale, which is convenient for visual observation of the solution volume.
- Cobalt 60 sterilization treatment, no pyrogen, no DNase, no RNase.
- The square ergonomic design is easy to grip and saves space.
- Anti-leakage, the lid and the bottle mouth cooperate more closely, and multiple control to ensure no leakage.

Note: This product does not support high temperature autoclave, only for storage. Can not be used as heating container.

## PRODUCT PARAMETER

### ■ PET material

PET material						
Item No.	Volume(ml)	Neck diameter (mm)	Height (without cap)	Height (with cap)	pcs/pack	pcs/case
CELCUFG084125S	125	35.4	104	108	24	96
CELCUFG084250S	250	35.4	140	144	56	224
CELCUFG084500S	500	35.4	172.5	176.5	20	80
CELCUFG084010S	1000	35.4	213	217	20	40

### ■ PETG material

PETG material						
Item No.	Volume(ml)	Neck diameter(mm)	Height (without cap)	Height (with cap)	pcs/pack	pcs/case
CELCUFG080060S	60	21.5	80.4	82.2	24	192
CELCUFG080125S	125	35.4	104	108	24	96
CELCUFG080250S	250	35.4	140	144	30	60
CELCUFG080500S	500	35.4	172.5	176.5	24	48
CELCUFG080010S	1000	35.4	213	217	12	24
CELCUFG0800060S	60	21.5	80.4	82.2	1	192
CELCUFG0800125S	125	35.4	104	108	1	80
CELCUFG0800250S	250	35.4	140	144	1	60
CELCUFG0800500S	500	35.4	172.5	176.5	1	48
CELCUFG0800010S	1000	35.4	213	217	1	40



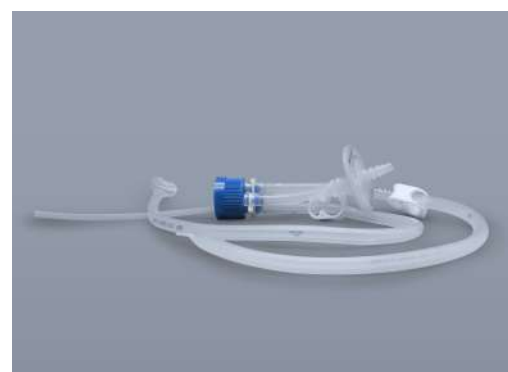
# CLOSED SAMPLING SYSTEM

- Provide thermoplastic tube or silicone tube for customers to choose.
- The acquiescent size of the liquid transfer line is IN 1/4", OD 7/16".
- Provide MPC/Luer connector for customers to choose.
- A variety of pipeline brands are available, the length and diameter of the pipeline can also be customized according to requirements.



## ► BOTTLE WITH TWO PORTS TUBING

Item No.	Volume	Pcs/pack	Pcs/case	Sterile		Material
CELCUFG088250S	250	30	60	Irradiation	sterilization	PETG
CELCUFG088500S	500	24	48	Irradiation	sterilization	PETG
CELCUFG088001S	1000	12	24	Irradiation	sterilization	PETG



## ► BOTTLE WITH THREE PORTS TUBING

Item No.	Volume	Pcs/pack	Pcs/case	Sterile		Material
CELCUFG089250S	250	30	60	Irradiation	sterilization	PETG
CELCUFG089500S	500	24	48	Irradiation	sterilization	PETG
CELCUFG089001S	1000	12	24	Irradiation	sterilization	PETG



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## PRODUCT COLLECTION - CELL CULTURE UNITS

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