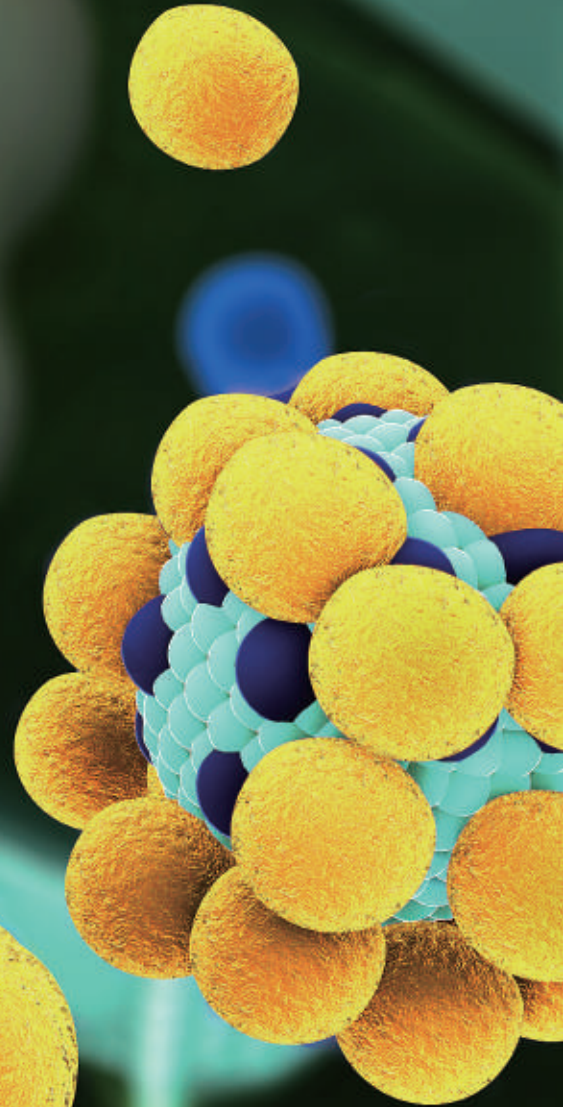
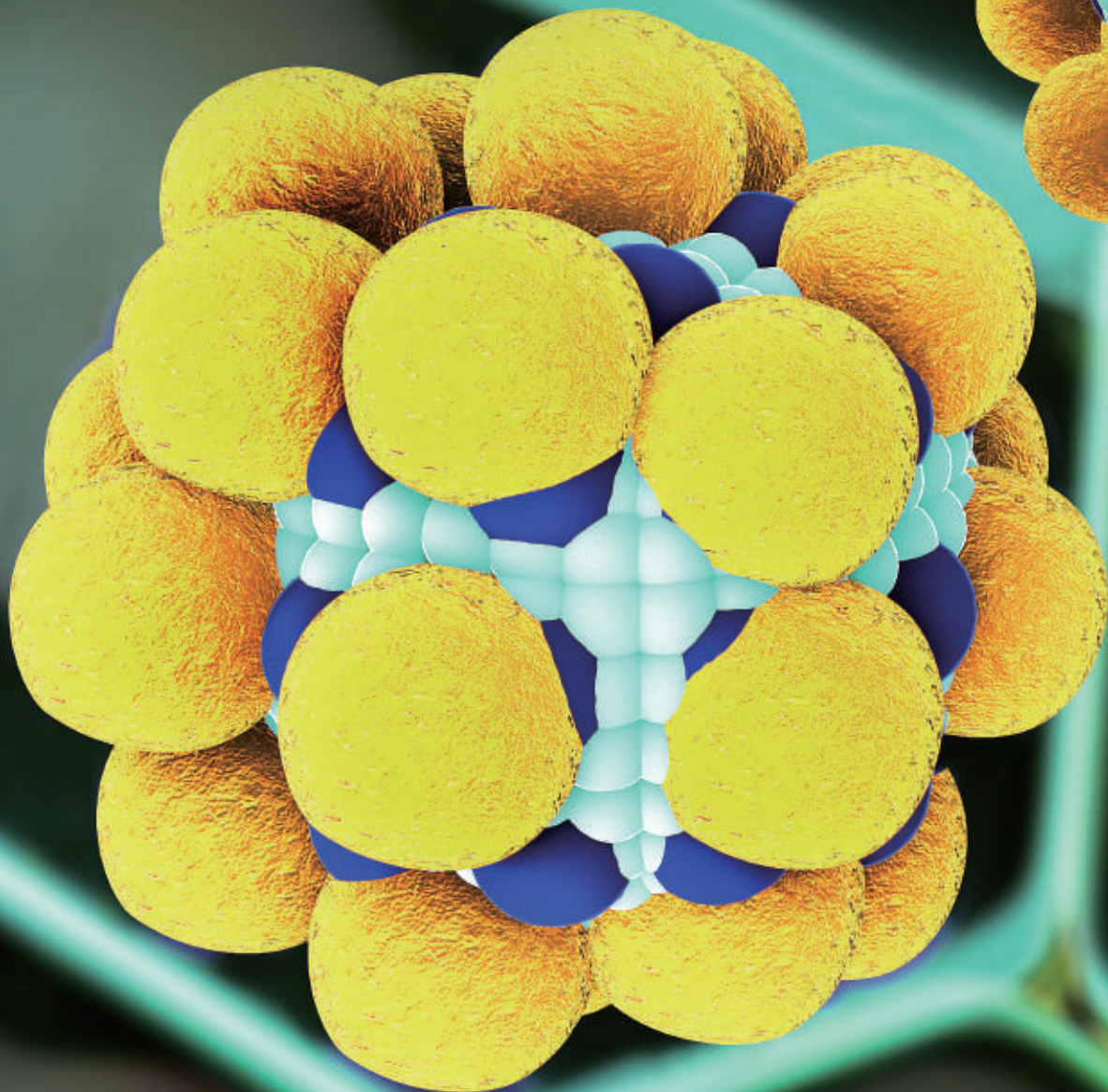


NEST<sup>®</sup>

# PRODUCT CATALOGUE



# Company Profile

## A leading life science plastic consumables manufacturer.

Wuxi NEST Biotechnology Co., Ltd. is a leading life science plastic consumables manufacturer located in Wuxi, Jiangsu, China, integrated with R&D production and sales, which was established in 2009. Our products have been exported to North America, Europe, Japan, Korea, India, and other countries, with an excellent reputation nationwide and abroad. Customers are located almost all over the world.

2011, NEST passed the standard of the quality management system of ISO 9001.

2014, NEST passed the standard of the quality management system of ISO 11137.

2016, NEST passed the standard of the quality management system of ISO 13485.

2020, NEST obtained the medical device production license.

In addition to these certifications, we also gained CE and FDA standards.

## NEST Scientific Inc. (USA)

With the development of the business, we have established deep cooperation and built strong relationships with overseas customers in order to send the products to customers in North America more quickly. Nest Scientific Inc., a branch of Wuxi NEST Biotechnology Co., Ltd., was established in New Jersey, the USA in 2013. Composed by a professional team with rich experience in training and sales skills, NEST Scientific USA can provide professional training as well as great communication with customers in-depth in order to understand customers' demands better and quicker. In 2022, NEST is opening a new 48,000ft<sup>2</sup> warehouse located in Phoenix, AZ. This new warehouse allows for more space to receive in and stock items as well as lower shipping costs for distributors on the west coast.

To further expand our footprints globally, and to respond the request for more timely service from NEST's accumulating industrial customers including CDMOs, vaccine plants and third-party testing companies, etc., we are setting up subsidiaries in Netherland, UAE and Japan to duplicate our US successful experience.

---

## Your best choice for medical laboratory consumables.

NEST is dedicated to researching and developing innovative plastic consumables suitable for life sciences research and medical establishments. There are more than 600 plastic consumables that can be widely used for cell culture, molecular biology, immunoassays, liquid handling, and storage such as cell culture plates, Erlenmeyer flasks, BioFactory, pipette tips, etc. More than 100 medical plastic consumables and reagents can be used in molecular diagnosis and vaccination, such as disposable samplers, transport media, swabs, nucleic acid extraction kits, and disposable intranasal atomization devices. In order to provide a more comprehensive and convenient service, we work closely with our affiliated company Wuxi Tech-star Technology Co., Ltd. We also provide lab instruments such as centrifuges, metal baths, BioBank, etc.

**Wuxi NEST Biotechnology Co., Ltd.**





## Quality Guaranteed

## Experienced team & a complete plastic consumables production line.

A complete plastic consumables production line is in NEST's possession, where all the procedures from mold-making, injection molding to sterilization, are done efficiently in our own factory. Precision molds, high-quality raw material, and advanced equipment are in position to manufacture products and perform quality testing under strict and comprehensive rules, ensuring our products meet the highest quality and performance standards expected by hospitals, research institutions, and industrial, clinical laboratories, to which we supply products.

- **Excellent mold-making ability.**

With over 30 years' experience, our senior R&D team utilize high-quality mold-making equipment imported from Germany in combination of professional mold analysis software to accomplish precision molds development tasks.

- **Injection molding in Class 10,000 and Class 100,000 cleanroom in strict quality control.**

Owing to the 2700 m<sup>2</sup> Class 10,000 cleanroom and 6800 m<sup>2</sup> Class 100,000 cleanroom, all-electric high-speed injection molding machines imported from Japan and the raw material which is in line with USP Class VI requirements, production and quality control are performed strictly in accordance with the corresponding SOP.

- **Sterilization by electronic beam irradiation.**

The Rhodotron TT200 electron accelerator, whose sterilization process has been certified by the ISO 11137 quality system, was imported from the IBA company, a world leader in the E-Beam sterilization industry in Belgium. Compared with sterilization by cobalt 60 or ethylene oxide sterilization, sterilization by electronic beam irradiation is more efficient and safer which requires less time and will not produce any chemical residue.



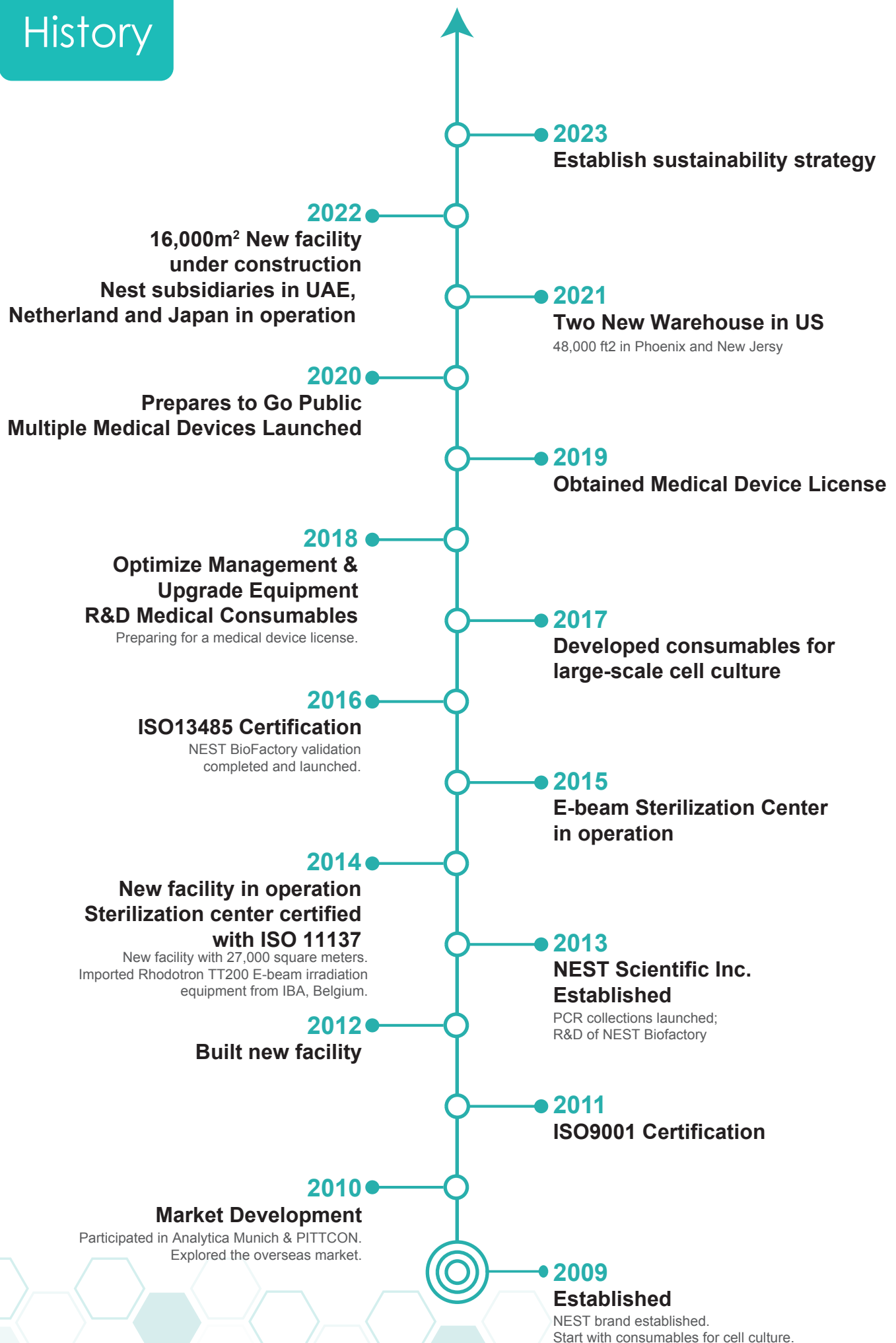
**West Coast Address of USA:**  
641 S 53rd Ave, Phoenix, AZ 85043 USA

**NEST Scientific Inc. (USA)**



**Corporate Address of USA:**  
3 Convery Blvd, Woodbridge, NJ 07095 USA

# History





# Company Profile



ISO 9001



ISO 13485



ISO 11137



FDA



CE



CE  
(Medical Consumables)



JSDA

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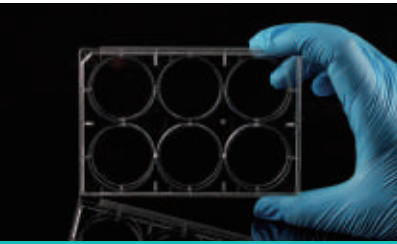
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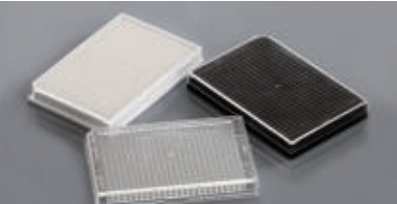
# Cytology



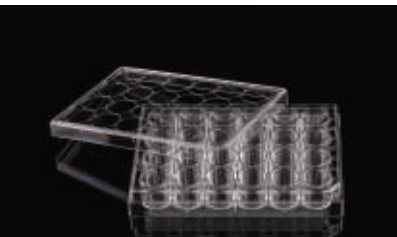
# Cell Culture Plate



Excellent bottom uniformity



384 Well Cell Culture Plate



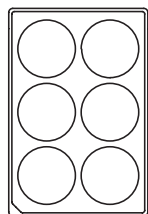
Special lid design ensures low evaporation



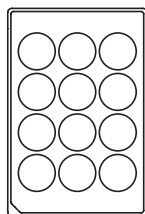
NEST cell culture plates have round edges for better handling. Low profile and low-evaporation lid design assures uniform growth. Tissue treated and non-treated are both available. Non-treated growth surface is more hydrophobic than tissue culture surface and are similar to the surface of a bacteriological petri dish. Small feet on the bottom corners of each plate eliminate scraping of the microscope lens.

## Features

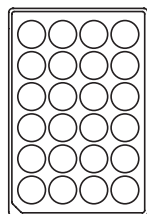
- Sterilized by E-beam, SAL= $10^{-6}$ .
- High clarity, 100% virgin polystyrene.
- "TC" refers to vacuum plasma tissue culture treatment.
- Clear lot number for batch traceability.
- Markings of well coordinates available for 6, 12, 24, 48 and 384 well plates.
- Non-Pyrogenic, DNase/Rnase free.



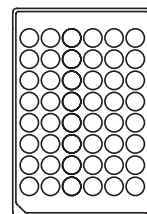
6 Well



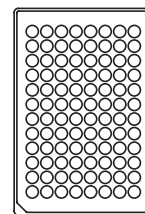
12 Well



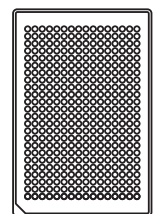
24 Well



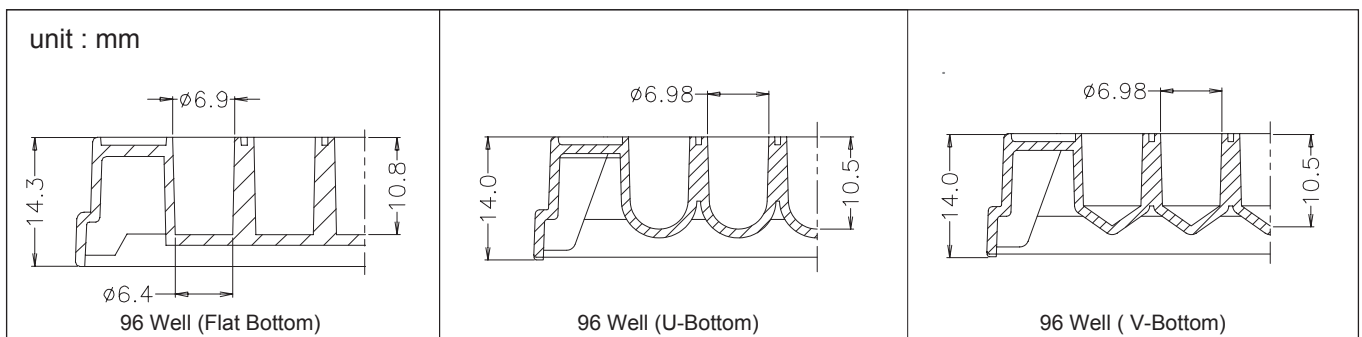
48 Well



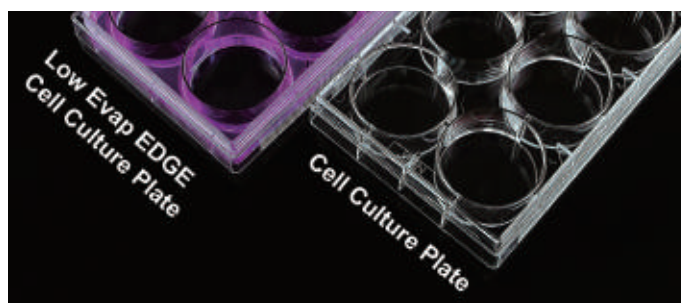
96 Well



384 Well



Products Name	Cell Growth Area (cm <sup>2</sup> )	Recommended Medium Volume (mL)
6 Well Cell Culture Plate, Flat Bottom	9.5	1.9-2.9
12 Well Cell Culture Plate, Flat Bottom	3.6	0.76-1.14
24 Well Cell Culture Plate, Flat Bottom	1.9	0.38-0.57
48 Well Cell Culture Plate, Flat Bottom	0.88	0.19-0.285
96 Well Cell Culture Plate, Flat Bottom	0.32	0.1-0.2
384 Well Cell Culture Plate, Flat Bottom	0.11	0.025-0.05
96 Well Cell Culture Plate, V-Bottom	0.41	0.1-0.2
96 Well Cell Culture Plate, U-Bottom	0.66	0.1-0.2



Grooves are designed at the edge of the culture plate to avoid the edge effect to the greatest extent and to ensure that the cells maintain their optimal state during cell culture.

## Cell Culture Plate Individually Packaged in Peelable Tyvek Film and Blister

TC Treated Cat. No.	Non-Treated Cat. No.	Description	/Pack	/Case
703001	703011	6 Well Cell Culture Plate, Flat Bottom, Clear	1	50
712001	712011	12 Well Cell Culture Plate, Flat Bottom, Clear	1	50
702001	702011	24 Well Cell Culture Plate, Flat Bottom, Clear	1	50
748001	748011	48 Well Cell Culture Plate, Flat Bottom, Clear	1	50
701001	701011	96 Well Cell Culture Plate, Flat-Bottom, Clear	1	100
701101	701111	96 Well Cell Culture Plate, U-Bottom, Clear	1	100
701201	701211	96 Well Cell Culture Plate, V-Bottom, Clear	1	100
701301	701311	96 Well Cell Culture Plate, Flat-Bottom, White	1	100
761001	761011	384 Well Cell Culture Plate, Flat Bottom, Clear	1	100
761301	761311	384 Well Cell Culture Plate, Flat Bottom, Black	1	100
761601	761611	384 Well Cell Culture Plate, Flat Bottom, White	1	100
714011	714001	6 Well Low Evap EDGE Plate, Flat Bottom, Clear	1	50
713011	713001	96 Well Low Evap EDGE Plate, Flat Bottom, Clear	1	100



## Cell Culture Plate Plastic Bag Package, 10/Pack

TC Treated Cat. No.	Non-Treated Cat. No.	Description	/Pack	/Case
703002	703012	6 Well Cell Culture Plate, Flat Bottom, Clear	10	50
712002	712012	12 Well Cell Culture Plate, Flat Bottom, Clear	10	50
702002	702012	24 Well Cell Culture Plate, Flat Bottom, Clear	10	50
748002	748022	48 Well Cell Culture Plate, Flat Bottom, Clear	10	50
701002	701012	96 Well Cell Culture Plate, Flat Bottom, Clear	10	100
761002	761012	384 Well Cell Culture Plate, Flat Bottom, Clear	10	100



## Cell Culture Plate Plastic Bag Package, 1/Pack

TC Treated Cat. No.	Description	/Pack	/Case
703003	6 Well Cell Culture Plate, Flat Bottom, Clear	1	50
712003	12 Well Cell Culture Plate, Flat Bottom, Clear	1	50
702003	24 Well Cell Culture Plate, Flat Bottom, Clear	1	50
748003	48 Well Cell Culture Plate, Flat Bottom, Clear	1	50
701003	96 Well Cell Culture Plate, Flat Bottom, Clear	1	100
761003	384 Well Cell Culture Plate, Flat Bottom, Clear	1	100





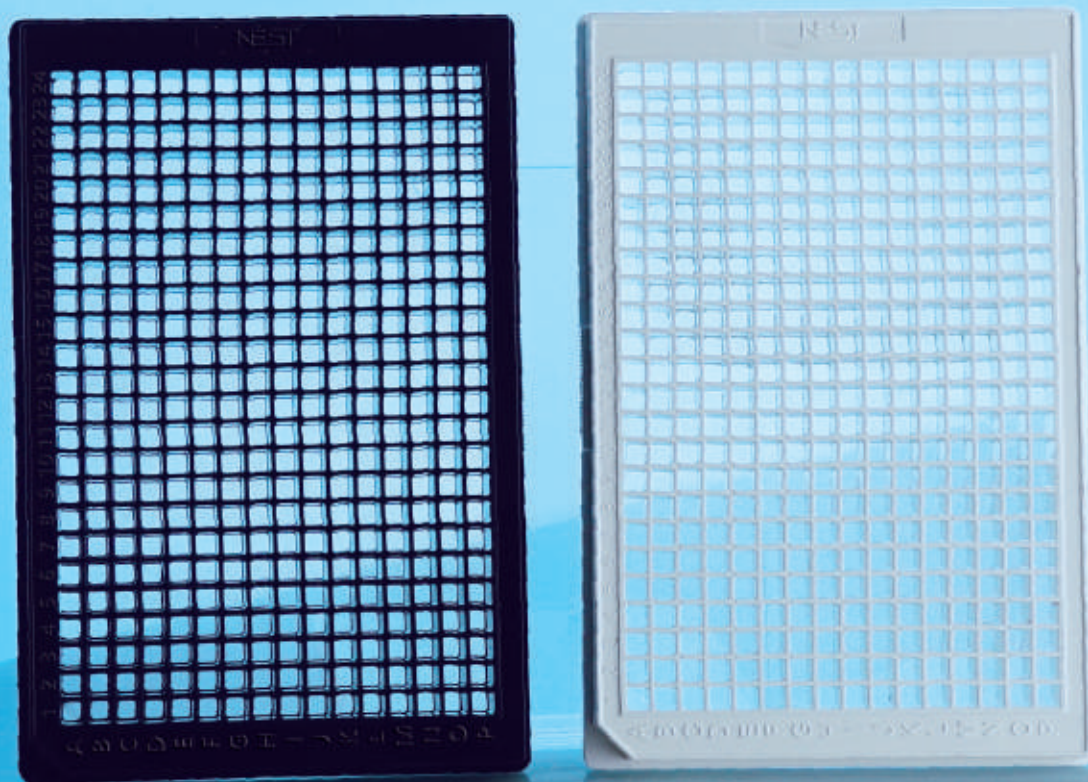
# NEW PRODUCT

## 96/384 Well Cell Culture Plate with Clear Polystyrene Bottom

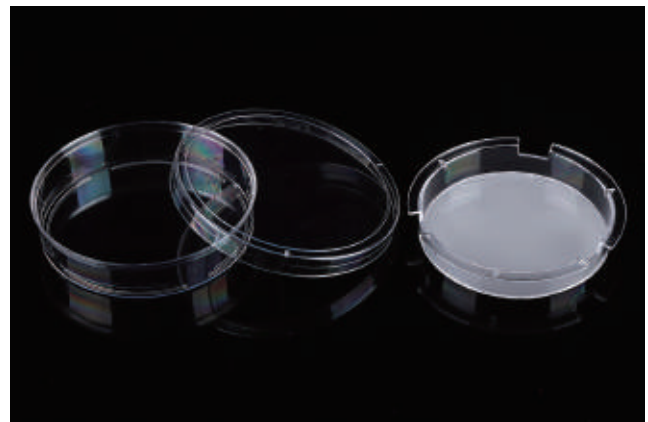
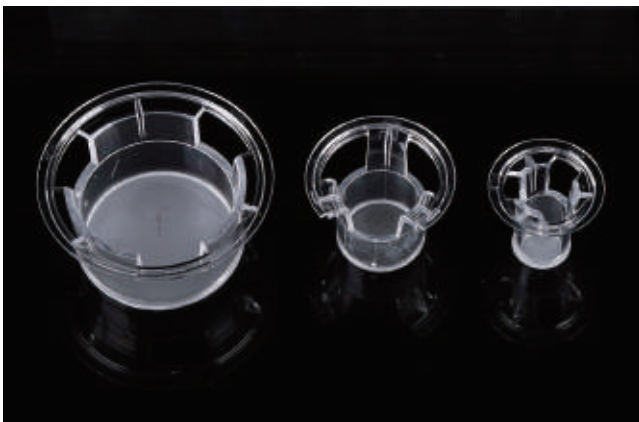
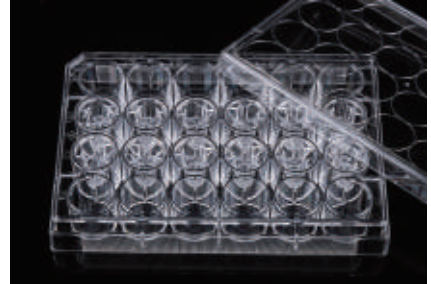
Coming Soon.....

### Features

- NEST microplate have been designed for high content screening (HCS) assays in drug development and related areas. It is also suitable for homogeneous assays employing fluorescence intensity, FRET and TR-FRET where measurements are bottom-read.
- Black microplates, which can reduce mutual influence, are suitable for fluorescent assays involving either top or bottom detection microplate readers.
- White microplates suit luminescent assays involving either top or bottom detection microplate readers.



# Cell Culture Insert





## Product Description:

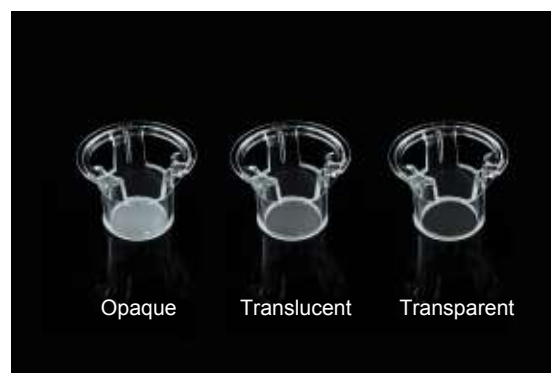
Cell and tissue culture technologies have an increasing importance in the fields of basic and applied life science. New culture vessels and new surfaces for cell adsorption are continuously emerging, in order to simulate the internal environment as much as possible for culture of some special cell lines. Logically, using permeable supports with a microporous membrane becomes the basic method for culturing these cells. Permeable supports may effectively improve the culture of polar cells, because these supports allow cells to secrete on and absorb molecules from their basal and apical surfaces to metabolize in a more natural way, as well as to stimulate the in vivo environment to the maximum extent for culturing of some special cell lines.

## Application Directions and Types

Applications	Cells	Pore size of Membrane
ADME (transport and permeation of compounds through the enterocyte barrier)	Caco-2, MDCK	0.4 $\mu\text{m}$
Co-culture and cell differentiation, cell imaging	Primary cells, tumor, stem cells	0.4 $\mu\text{m}$ , 1.0 $\mu\text{m}$
Cell migration and invasion (angiogenesis)	Endotheliocytes	3.0 $\mu\text{m}$
Cyto-chemotaxis (migration) or endothelial migration	Leukocytes	
Axonal hyperplasia	Neurons	
Tumor cell migration and invasion	Tumor-derived cells	8.0 $\mu\text{m}$
Hematostaxis or migration through endotheliocytes	Leukocytes	
Co-culture	Tumor stem cells	
Transport and secretion of macromolecules or viruses		1.0 $\mu\text{m}$ , 3.0 $\mu\text{m}$

## Features

- Sterilized by E-beam, SAL=10<sup>-6</sup>.
- Vacuum Plasma tissue culture treatment.
- Non-Pyrogenic, DNase/Rnase free.
- A rich selection of matching plates: 6-well, 12-well, 24-well.
- Passed the USP VI toxicity test.
- Cell culture plates are made of high clarity, 100% virgin polystyrene.
- Clear lot number for batch traceability.
- Innovative edge design for convenient sample loading.
- Low protein binding to ensure accurate results.
- Compatible with most solvents used for fixing and staining.



## Product Specification

Specifications	Insert Diameter (mm)	Volume of Each Well (mL)	Inner Volume of Insert (mL)	Membrane Growth Area of Insert (cm <sup>2</sup> )
6 Well Plate	24	2.6	1.5	4.67
12 Well Plate	12	1.5	0.5	1.12
24 Well Plate	6.5	0.6	0.1	0.33
100mm Dish	75	13	9	44

Pore Size of Membrane ( $\mu\text{m}$ )	Membrane Density (Well/cm <sup>2</sup> )
0.4	1x10 <sup>8</sup>
1.0	2x10 <sup>7</sup>
3.0	2x10 <sup>6</sup>
5.0	4x10 <sup>5</sup>
8.0	1x10 <sup>5</sup>



Cell Culture Insert



# Cell Culture Insert

## Cell Culture Insert, PC Membrane

Individually packaged in peelable Tyvek film and Blister, Sterile.

TC Treated Cat. No.	Non-Treated Cat. No.	Description	Pore Size (µm)	Membrane Transparence	Packing	
					Insert Packing	Plate Packing
723001	723011	6 Cell Culture Inserts + 6 Well Plate	3.0	Translucent	6	60
724001	724011	12 Cell Culture Inserts + 12 Well Plate	3.0	Translucent	12	120
725001	725011	12 Cell Culture Inserts + 24 Well Plate	3.0	Translucent	12	120
723101	723111	6 Cell Culture Inserts + 6 Well Plate	0.4	Opaque	6	60
724101	724111	12 Cell Culture Inserts + 12 Well Plate	0.4	Opaque	12	120
725101	725111	12 Cell Culture Inserts + 24 Well Plate	0.4	Opaque	12	120
724201	724211	12 Cell Culture Inserts + 12 Well Plate	5.0	Translucent	12	120
725201	725211	12 Cell Culture Inserts + 24 Well Plate	5.0	Translucent	12	120
723301	723311	6 Cell Culture Inserts + 6 Well Plate	8.0	Translucent	6	60
724301	724311	12 Cell Culture Inserts + 12 Well Plate	8.0	Translucent	12	120
725301	725311	12 Cell Culture Inserts + 24 Well Plate	8.0	Translucent	12	120
726001	/	100 mm Cell Culture Insert-Dish	3.0	Translucent	1	10

## Cell Culture Insert, PET Membrane

Individually packaged in peelable Tyvek film and Blister, Sterile.

TC Treated Cat. No.	Non-Treated Cat. No.	Description	Pore Size (µm)	Membrane Transparence	Packing	
					Insert Packing	Plate Packing
723121	723131	6 Cell Culture Inserts + 6 Well Plate	0.4	Opaque	6	60
724121	724131	12 Cell Culture Inserts + 12 Well Plate	0.4	Opaque	12	120
725121	725131	12 Cell Culture Inserts + 24 Well Plate	0.4	Opaque	12	120
723021	723031	6 Cell Culture Inserts + 6 Well Plate	3.0	Translucent	6	60
724021	724031	12 Cell Culture Inserts + 12 Well Plate	3.0	Translucent	12	120
725021	725031	12 Cell Culture Inserts + 24 Well Plate	3.0	Translucent	12	120

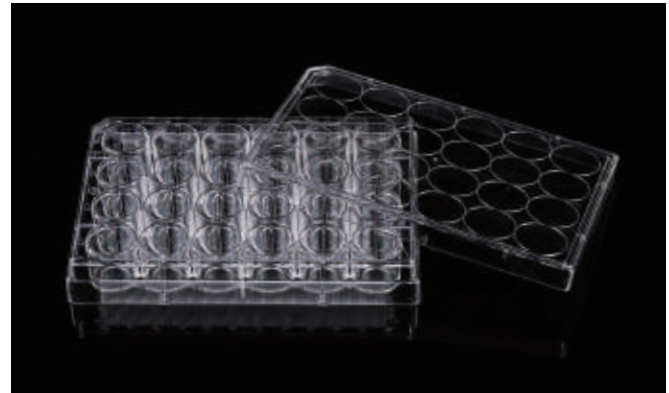
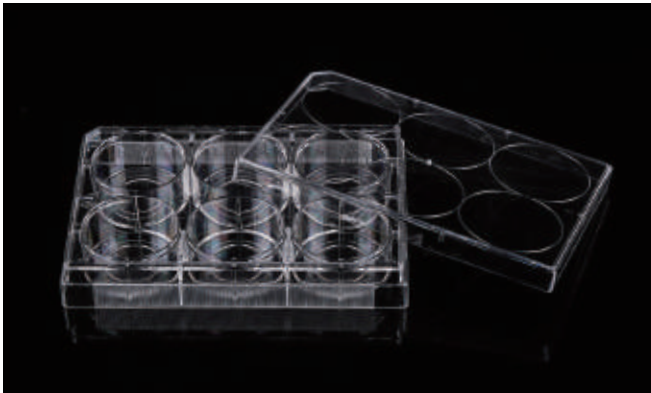
## PET Membrane: add 1µm & 8µm.

Individually packaged in peelable Tyvek film and Blister, Sterile.



TC Treated Cat. No.	Non-Treated Cat. No.	Description	Pore Size (µm)	Membrane Transparence	Qty/Pack	/Case
723421	723431	6 Cell Culture Inserts + 6 Well Plate	1.0	Transparent	6 inserts + 1 plate	60 inserts+ 10 plates
724421	724431	12 Cell Culture Inserts + 12 Well Plate	1.0	Transparent	12 inserts + 1 plate	120 inserts+ 10 plates
725421	725431	12 Cell Culture Inserts + 24 Well Plate	1.0	Transparent	12 inserts + 1 plate	120 inserts+ 10 plates
723321	723331	6 Cell Culture Inserts + 6 Well Plate	8.0	Transparent	6 inserts + 1 plate	60 inserts+ 10 plates
724321	724331	12 Cell Culture Inserts + 12 Well Plate	8.0	Transparent	12 inserts + 1 plate	120 inserts+ 10 plates
725321	725331	12 Cell Culture Inserts + 24 Well Plate	8.0	Transparent	12 inserts + 1 plate	120 inserts+ 10 plates

# Glass Bottom Cell Culture Dish / Plate



NEST glass bottom series are applied in confocal microscope, high resolution microscope, differential interference contrast microscope, polarized light microscope and phase contrast microscope for cell observation.

## Features

- Can be used for live cell observation.
- Special bottom design for easy grip.
- Round cover glass inserts for good appearance.
- Medical adhesive glue to guarantee non-cytotoxicity.
- Sterilized by E-beam, SAL=10<sup>-6</sup>.
- Made of high clarity, 100% virgin polystyrene and high clarity glass as bottoms.
- High quality cover glass of standard thickness.

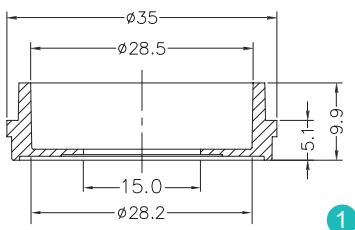
## Glass Bottom Culture Dish

Cat.No.	Type (mm)	Glass Diameter (mm)	Cultivation Area (cm <sup>2</sup> )	TC	/Pack	/Case
801002	28.2	15	6.2	Yes	10	200
801001	28.2	20	6.2	Yes	10	200

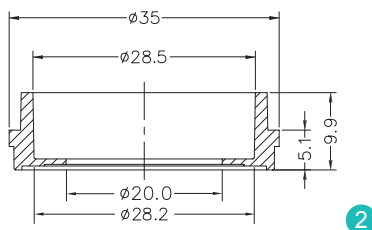


## Glass Bottom Culture Plate

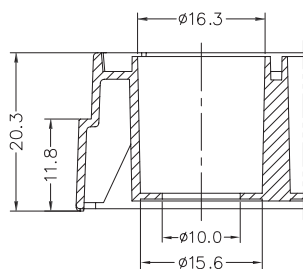
Cat.No.	Spec (Well)	Glass Diameter (mm)	Cultivation Area (cm <sup>2</sup> )	TC	/Pack	/Case
801004	6	34.8	9.5	Yes	1	10
801006	24	15.6	1.9	Yes	1	10



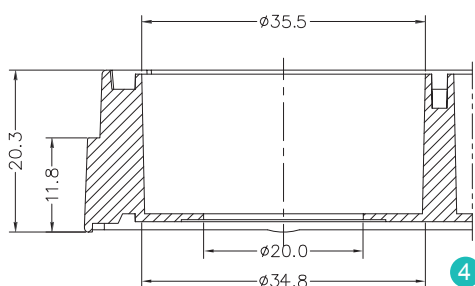
1



2



3



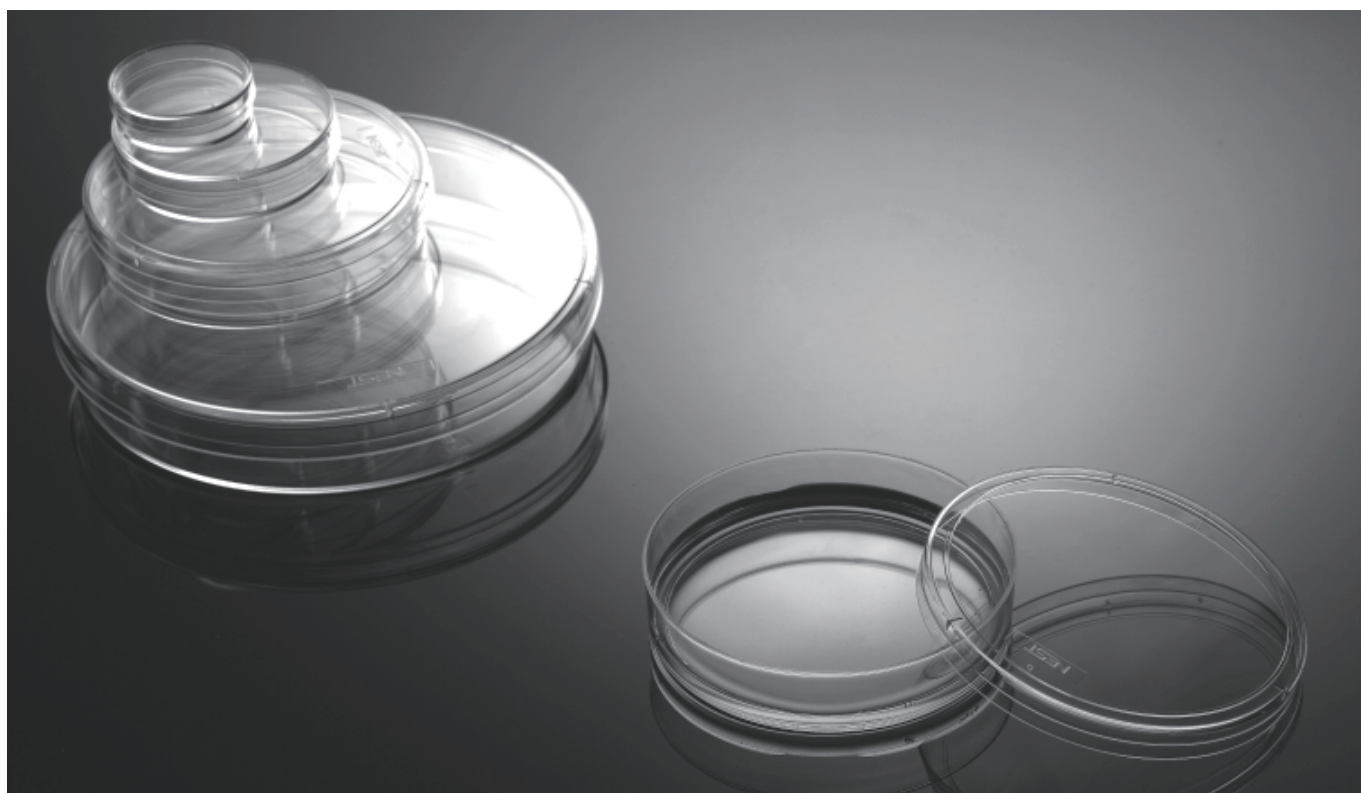
4



## Unit: mm

- ① Φ15 Glass Bottom Dish
- ② Φ20 Glass Bottom Dish
- ③ 24 Well Glass Bottom Plate
- ④ 6 Well Glass Bottom Plate

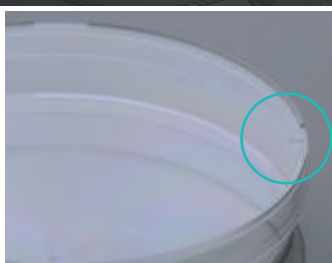
# Cell Culture Dish



35 mm Dish with Gripping Ring



100 mm Dish with Gripping Ring



Vent points for Gas Exchange



Sterilized Packing

NEST cell culture dishes are ideal for all types of culturing where microscopic examination is required. Numeric indicators on the bottom of each plate allow users to identify the location of cells.

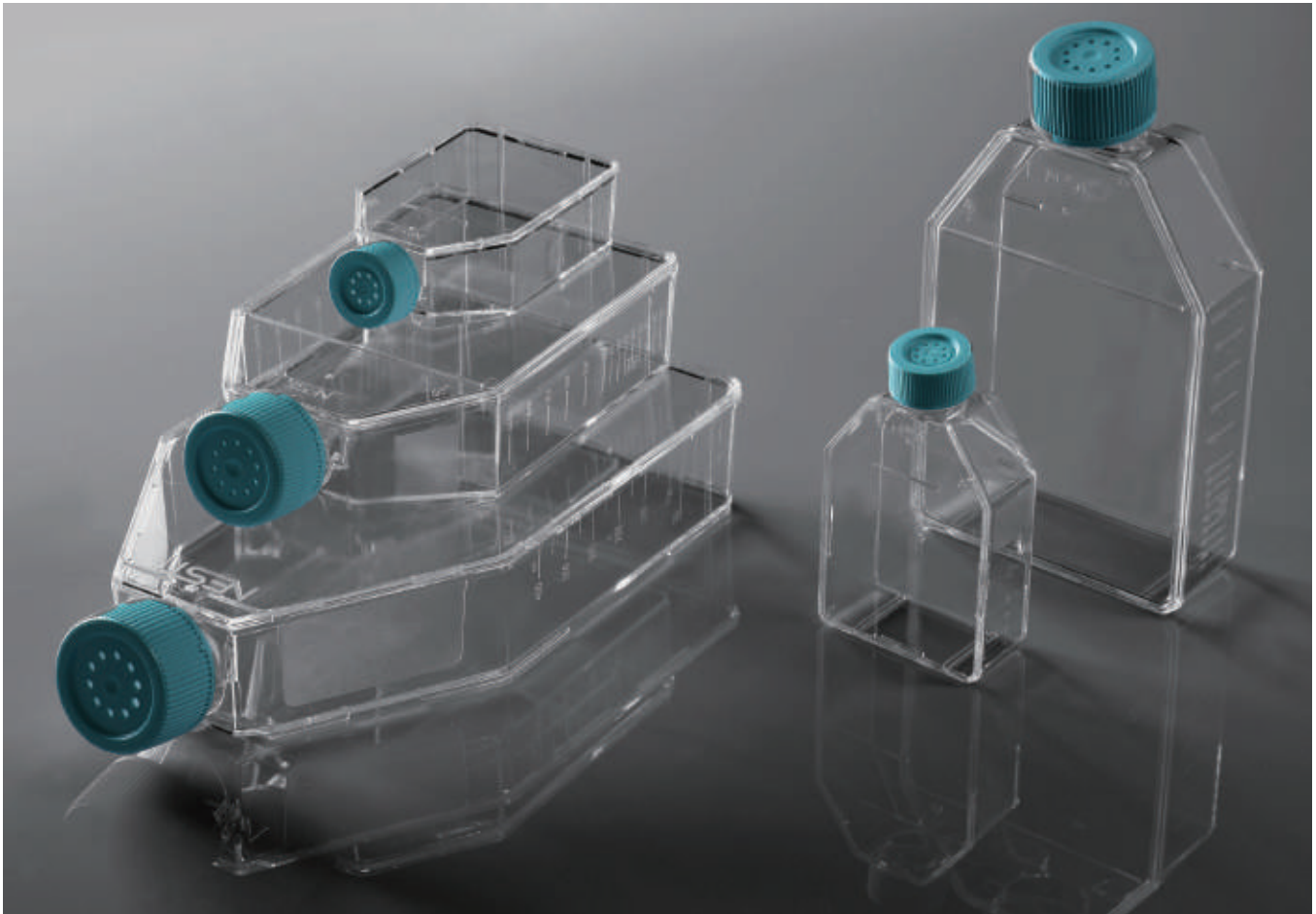
## Features

- High clarity, 100% virgin polystyrene.
- Flat transparent surface for distortion-free observation.
- Vacuum plasma TC treatment, excellent cell adsorption.
- Stackable for easy storage and handling.
- Sterilized by E-beam, SAL=10<sup>-6</sup>.
- Non-Pyrogenic, DNase/Rnase free.

Cat.No.	Spec(mm)			Cell Growth Area (cm <sup>2</sup> )	Recommended Medium Volume (mL)	/Pack	/Case
	Type	Height	Diameter				
706001	35	12	33.6	8.5	1.8-2.7	20	500
706201	35, with Gripping Ring	12	33.6	8.5	1.8-2.7	20	500
705001	60	15	55.2	22.9	4.2-6.3	20	500
705201	60, with Gripping Ring	15	55.2	22.9	4.2-6.3	20	500
704004	100	20	87.2	57.6	11-16.5	5	300
704002	100	20	87.2	57.6	11-16.5	10	300
704001	100	20	87.2	57.6	11-16.5	20	300
704202	100, with Gripping Ring	20	86.9	59.3	11-16.5	10	300
704201	100, with Gripping Ring	20	86.9	59.3	11-16.5	20	300
715001	150	25	139.9	150.1	30.4-45.6	5	100



# Cell Culture Flask



Vent caps with 0.22  $\mu\text{m}$  hydrophobic filters to ensure gas exchange without contamination



Vent caps and plug seal caps

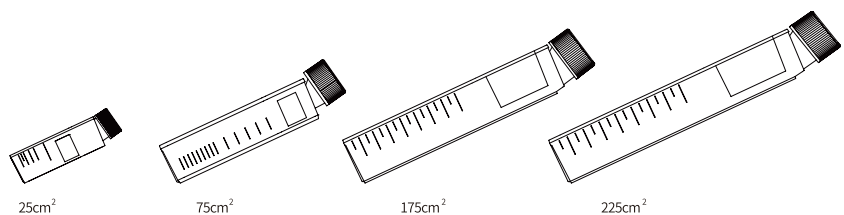


Yellow caps for non-treated flask

NEST's Cell Culture Flasks whose cell growth areas ranging from 25cm<sup>2</sup> to 225cm<sup>2</sup> are available. These flasks are available as issue culture treated or non-treated as well as with a vent cap or plug seal cap to meet your requirements.

## Features

- Made of high clarity, 100% virgin polystyrene.
- Sterilized by E-beam, SAL=10<sup>-6</sup>.
- Non-Pyrogenic, DNase/Rnase free.
- Frosted writing and clear graduations.
- Notched bottom for slip free slip stacking.
- Clear lot number for batch traceability.
- Packaged in sterile, zip-sealable bags.



# Cell Culture Flask

Cat. No.	Description	/Pack	/Case
707001	25 cm <sup>2</sup> Cell Culture Flask, Plug Seal Cap, TC Treated	10	200
708001	75 cm <sup>2</sup> Cell Culture Flask, Plug Seal Cap, TC Treated	5	100
709001	175 cm <sup>2</sup> Cell Culture Flask, Plug Seal Cap, TC Treated	5	40
721001	225 cm <sup>2</sup> Cell Culture Flask, Plug Seal Cap, TC Treated	5	25
707003	25 cm <sup>2</sup> Cell Culture Flask, Vent Cap, TC Treated	10	200
708003	75 cm <sup>2</sup> Cell Culture Flask, Vent Cap, TC Treated	5	100
709003	175 cm <sup>2</sup> Cell Culture Flask, Vent Cap, TC Treated	5	40
721003	225 cm <sup>2</sup> Cell Culture Flask, Vent Cap, TC Treated	5	25

Cat. No.	Description	/Pack	/Case
707011	25 cm <sup>2</sup> Cell Culture Flask, Plug Seal Cap, Non-Treated	10	200
708011	75 cm <sup>2</sup> Cell Culture Flask, Plug Seal Cap, Non-Treated	5	100
709011	175 cm <sup>2</sup> Cell Culture Flask, Plug Seal Cap, Non-Treated	5	40
721011	225 cm <sup>2</sup> Cell Culture Flask, Plug Seal Cap, Non-Treated	5	25
707013	25 cm <sup>2</sup> Cell Culture Flask, Vent Cap, Non-Treated	10	200
708013	75 cm <sup>2</sup> Cell Culture Flask, Vent Cap, Non-Treated	5	100
709013	175 cm <sup>2</sup> Cell Culture Flask, Vent Cap, Non-Treated	5	40
721013	225 cm <sup>2</sup> Cell Culture Flask, Vent Cap, Non-Treated	5	25

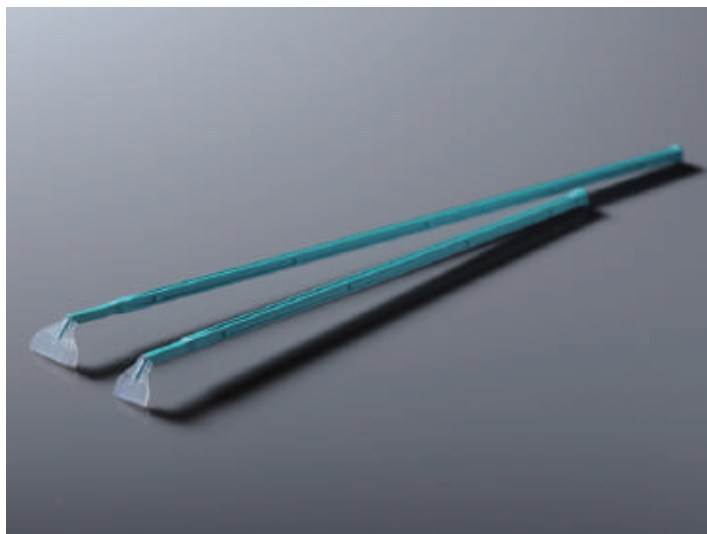
## T150 U-Shaped Canted Neck Cell Culture Flask



### Features

- The bottleneck is enlarged to the size of the large mouth of NEST BioFactory, facilitating accessories' matching and offering better tubes' connection and closed transfer.
- The U-shaped body design enhances the utilization rate of the bottom.
- The membrane area of vent cap is enlarged for better permeability.
- The PS material of high clarity meets the requirements of USP CLASS VI ISO10993.
- Frosted marking area on the side.
- The clear graduation is convenient for volume observation.

Cat. No.	Description	/Pack	/Case
720001	150 cm <sup>2</sup> Cell Culture Flask, Plug Seal Cap, TC Treated	5	8
720003	150 cm <sup>2</sup> Cell Culture Flask, Plug Vent Cap, TC Treated	5	8
720011	150 cm <sup>2</sup> Cell Culture Flask, Plug Seal Cap, Non-Treated	5	8
720013	150 cm <sup>2</sup> Cell Culture Flask, Plug Vent Cap, Non-Treated	5	8



# Cell Scraper

## Features

- Free rotating blade, makes the blade twist to the right direction.
- Two sizes are available.
- Easy-tear sterile packing.
- Sterilized by E-beam, SAL=10<sup>-6</sup>.
- Non-Pyrogenic, DNase/Rnase free.
- Individually packaged.

Cat.No.	Spec(mm)		/Case
	Total Length	Blade Width	
710001	220	13	100
710011	280	20	100



# Cell Strainer

## Features

- Ideal for stem cell and tissue-derived primary cell preparation.
- Fits nearly all 50ml conical tubes.
- Tab molded within upper ring enables easy sterile handling.
- Sterilized by Gamma ray.
- Non-Pyrogenic, DNase/Rnase free.
- Individually packaged.

Cat.No.	Spec (μm)	Color	Sterile	/Case
258366	40	Blue	Sterile	50
258365	70	White	Sterile	50
258364	100	Yellow	Sterile	50



# Cover Glass

## Features

- High quality glass, non-cytotoxic.
- Sterile, non-treated.
- Manufactured in class 100,000 clean room.
- Resistant to organic solvent.
- Autoclavable.
- Suitable for used in confocal experiment.

Cat.No.	Glass Diameter (mm)	Thickness (mm)	/Pack	Application
801010	14	0.17	100	24 Well Cell Culture Plate
801007	15	0.17	100	24 Well Cell Culture Plate
801011	18	0.17	100	12 Well Cell Culture Plate
801008	20	0.17	100	12 Well Cell Culture Plate
801009	25	0.17	100	6 Well Cell Culture Plate



# 50mL Mini Bioreactor



This product is a test tube specially used to grow cells. It has good chemical resistance and high mechanical strength, and it is suitable for any 50ml standard centrifugal device.

## Features

- USP VI Polypropylene.
- High transparency, easy to observe.
- Vent caps with 0.22  $\mu$ m hydrophobic filters for gas exchange without contamination.
- Packaged in sterile, zip-sealable bags.
- Sterilized by E-beam, SAL=10<sup>-6</sup>.
- Non-Pyrogenic, DNase/Rnase free.
- Suitable for used for centrifugation.

Cat.No.	Volume (mL)	/Pack	/Case
788211	50	10	100

# Large Scale Cultivation



# 5-Layer Cell Culture Flask

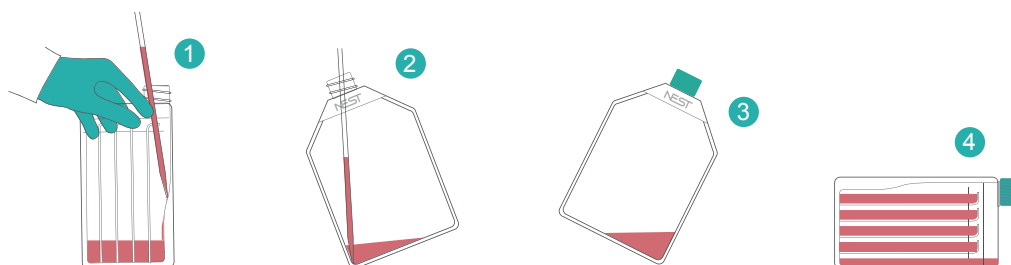


## Features

- Made of high clarity, 100% virgin polystyrene.
- Sterilized by E-beam, SAL=10<sup>-6</sup>.
- Non-Pyrogenic, DNase/Rnase free.
- Growth area: 870 cm<sup>2</sup>.
- Individually packaged in sterile bag.

Cat.No.	Cap Style	Recommended Medium Volume(mL)	TC	/Pack	/Case
731001	Plug Seal Cap	100-150	Yes	1	8
731002	Vent Cap	100-150	Yes	1	8

## Guidelines For Use:



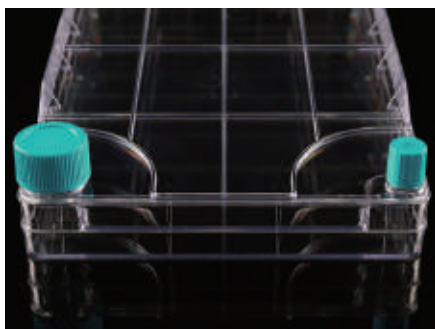
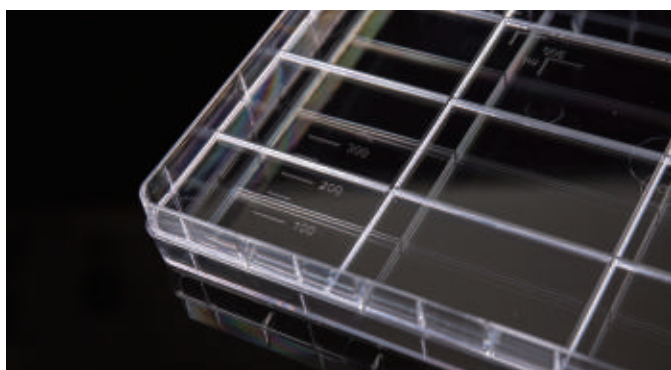
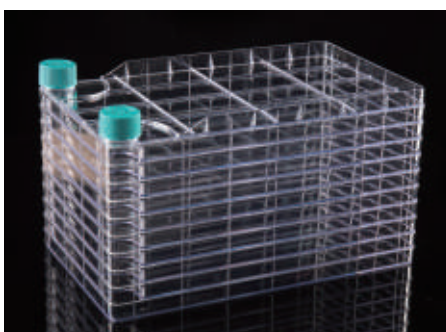
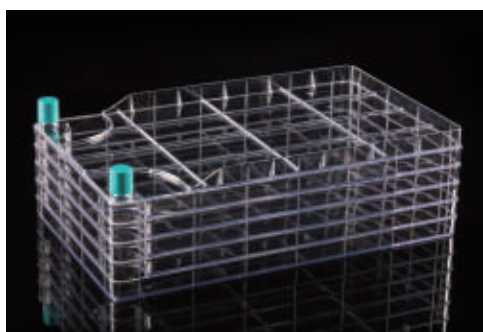
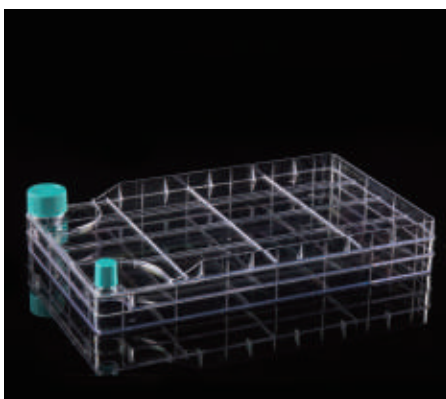
1. Mix cell suspension with medium: Prepare cell suspension of required concentration in a container. Recommended volume is about 30- 50mL per layer.
2. Add the mixed liquid into the Multi-layer Flask slowly with serological pipettes. To avoid foam and bubbles, allow liquid stream to flow along the slope of the Multi-layer Flask. (Save a little liquid in pipette each time.)
3. Tips: A 10 mL pipette allows media to be dispensed at the bottom of the vessel. A 25 mL pipette allows media to be dispensed just past the NEST Logo.
4. Hold the Multi-layer Flask upright with the Logo facing you and tilt clockwise to a 45° angle on a flat work surface to partition the liquid into each layer.
5. While holding the Multi-layer Flask at a 45° angle, gently lay it flat onto the work surface with logo facing up.
6. After placing the Multi-layer Flask flat on a work surface, gently rock back and forth and side-to-side to distribute cells evenly onto culture surfaces.
7. Tips: Be careful to avoid foaming of medium, and not to spill liquid from each layer.
8. Repeat step 3 to put the flask quickly and slightly into the incubator. Then, lay it flat as shown in step 4. You may choose to either aspirate or pour the media from Multi-layer Flask.
9. Aspirating method: To aspirate or remove media, tilt Multi-layer Flask, with the NEST Logo facing you, counter-clock wise to a 45° angle while inverting the Multi-Flask toward you. Then, tilt Multi-layer Flask to the right, continuing to aspirate all residual media.
10. Pouring method: With Logo facing you, pour spent media from Multi-layer Flask.
11. Tips: Aspirate media using a NEST 2 mL or 10mL aspirating pipette.
12. Wash with buffer for one time and add dissociating reagent (≥5mL per layer). Then, follow Steps 3-4 to distribute to dissociating reagent to each layer.
13. Neutralize with inactivating solution and mix following steps 3-4. Gently swirl to dislodge cells completely.
14. Follow Step 7 "Aspirating Method" protocol and collect cell suspension using a NEST 10mL serological pipette.
15. Follow Step 8 "Pouring Method". Pour the cell suspension into a NEST conical tube.
16. Rinse with additional wash buffer if needed.
17. Search "NEST Multi-layer Flask" video on NEST website or Youtube.



NEST BioFactory™ is a well-designed cell culture system that maximizes the culture area and saves the workshop space to achieve the purpose of expanding production capacity at low cost.

NEST BioFactory™ can be used for industrial-scale production such as vaccines, monoclonal antibodies and biopharmaceuticals. It is suitable for adherent cell culture. Linear amplification will not change the kinetic conditions of cell growth.

Specifications: single-layer, 2-layer, 5-layer, 10-layer, and 40-layer.



## Strict product quality supervision

### Production environment--Class 10,000 clean production workshop

NEST Factory™ is produced in a dedicated 10,000-class clean room, and other products are produced in a 100,000-class clean room.

### Production material--Strictly selected polystyrene conforming to USP Class VI standard

### Production Process--Strictly follow SOP for production and quality control

Exquisite product design, high precision forming, ultrasonic welding, no chemical addition.

### Surface treatment--Tissue culture treated

The surface of the cell culture container is treated with hydrophilic treatment to ensure that the cells adhere to the surface more evenly and stable with better adsorption capacity.

### Product expiration date verification

The cell growth surface can still meet the cell growth requirements after three years of aging, and there is no positive result of the sterility test.

### Biosafety testing

Refer to <<State Food and Drug Administration National Standards for Packaging Materials and Containers in Direct Contact with Drugs (Series 6)>>, The product is tested for cytotoxicity, sensitization, intradermal irritation, acute systemic toxicity and hemolysis.

### Physical and chemical safety testing

Refer to <<State Food and Drug Administration National Standards for Packaging Materials and Containers in Direct Contact with Drugs (Series 6)>>, The products are tested for insoluble particles, ignition residues, metal elements, and dissolved substances (clarity, color, pH, UV absorbance, non-volatile matter, easy oxides, heavy metals).

### Process testing

In order to ensure the structure and strength of the product, it is necessary to verify the performance of relevant equipment, such as injection molding machines, molds, plasma equipment, welding machines, leakage meter and so on before production. After production, the product should be verified for sealing, strength, dropping and transportation.

### Cell growth test

Cell growth homogeneity experiment.

### Cell factory validation test--Sterility and particle guarantee

Product initial bioburden test, irradiation dose setting, dose review, aseptic packaging verification, irradiation process verification, product sterility and particle testing.

### Applicable cells

VERO、MRC-5、2BS、293T、L-929 .....

### Packaging strength verification

The breakage rate is less than 3% after repeated long distance delivery challenges.

### Sterility Guarantee--Imported Rhodotron® TT200 electron accelerator from Belgian IBA company, Self-built irradiation center.

The irradiation sterilization process has passed ISO 13485 and ISO 11137 quality system certification.

NEST BioFactory™ Systems are compact, multi-layer, single-use cell culture systems designed for easy scale-up cell culture applications such as production of vaccines, monoclonal antibodies or pharmaceuticals. They're versatile and easy-to-use systems for medium to large scale research or commercial production with reduced contamination risk. Narrow mouth caps available for tubing solutions.

## Features

- Made of high clarity, 100% virgin polystyrene.
- Sterilized by E-beam, SAL=10<sup>-6</sup>.
- Non-Pyrogenic, DNase/Rnase free.
- Individually packaged in double-layer sterile bags.
- TC treated, good for cell attachment and growth.
- Clear lot number for batch traceability.
- Ultrasonic welding without extrinsic ingredients.
- Excellent welding line design can avoid producing particles during welding and make the biofactory stronger (Under Features 7th line).
- Vent caps with 0.22 µm hydrophobic filters for gas exchange without contamination.
- Wide mouth is applicable to pour culture medium directly. Narrow mouth is applicable to operate with the aseptic pipeline.
- Growth kinetics are the same as cells grow in the cell culture flasks. Applicable to large-scale culture adherent cells.
- Large growing area. Just a single operate, you can cultivate a large number of cells and reduce contamination risk.
- Applicable to automatic machine.
- Standardize operations to reduce batch differences.

Cat.No.	Layer	Cultivation Area (cm <sup>2</sup> )	Description	/Case
771001	1	632	<b>2 Wide Plug Seal Caps</b> with 16 Sterile Vent Caps Included Separately	8
771101	2	1,264	<b>2 Wide Plug Seal Caps</b> with 16 Sterile Vent Caps Included Separately	8
771204	5	3,160	<b>2 Wide Plug Seal Caps</b> with 8 Sterile Vent Caps Included Separately	4
771302	10	6,320	<b>2 Wide Plug Seal Caps</b> with 12 Sterile Vent Caps Included Separately	6
771403	40	25,295	<b>2 Wide Plug Seal Caps</b> with 4 Sterile Vent Caps Included Separately	2
772001	1	632	<b>2 Narrow Plug Seal Caps</b> with 16 Sterile Vent Caps Included Separately	8
772101	2	1,264	<b>2 Narrow Plug Seal Caps</b> with 16 Sterile Vent Caps Included Separately	8
772204	5	3,160	<b>2 Narrow Plug Seal Caps</b> with 8 Sterile Vent Caps Included Separately	4
772302	10	6,320	<b>2 Narrow Plug Seal Caps</b> with 12 Sterile Vent Caps Included Separately	6
772403	40	25,295	<b>2 Narrow Plug Seal Caps</b> with 4 Sterile Vent Caps Included Separately	2
773001	1	632	<b>1 Wide + 1 Narrow Plug Seal Cap</b> with 16 Sterile Vent Caps Included Separately	8
773101	2	1,264	<b>1 Wide + 1 Narrow Plug Seal Cap</b> with 16 Sterile Vent Caps Included Separately	8
773204	5	3,160	<b>1 Wide+ 1 Narrow Plug Seal Cap</b> with 8 Sterile Vent Caps Included Separately	4
773302	10	6,320	<b>1 Wide + 1 Narrow Plug Seal Cap</b> with 12 Sterile Vent Caps Included Separately	6
773403	40	25,295	<b>1 Wide + 1 Narrow Plug Seal Cap</b> with 4 Sterile Vent Caps Included Separately	2

Large mouth design for easy pouring of the medium directly;

Small mouth design for easy connection with the feeding systems;

Vent Cap : 0.22 µm hydrophobic gas permeable membrane, hindering bacteria and water, can also avoid liquid swelling.

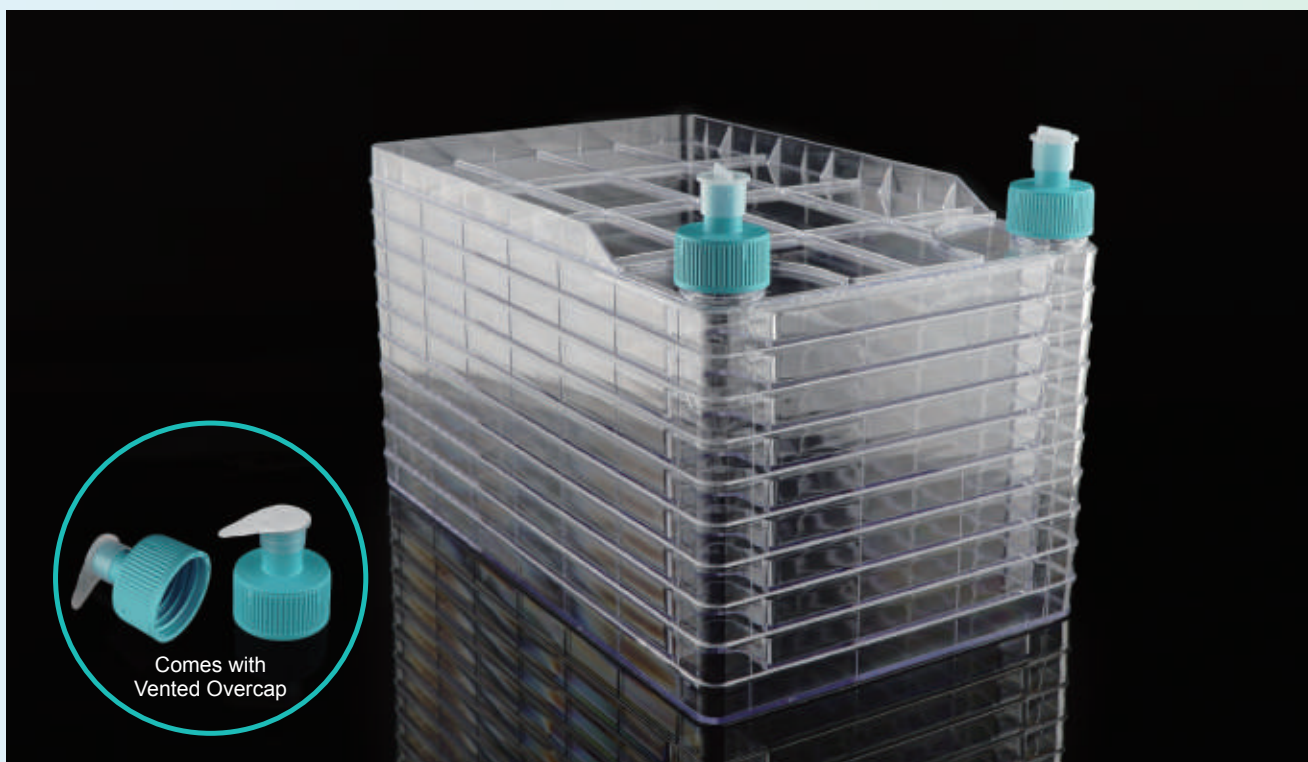


# NEW PRODUCT NEW

## BioFactory™ (Cap with Over cap)

### Features

Vented Overcap and Solid Overcap can be used directly on the adaptor caps to block dust and bacteria. Vented Overcap is equipped with a 0.22 µm hydrophobic breathable membrane to achieve aseptic ventilation during liquid transfer.



Cat.No.	Description	/Case
771322	NEST BioFactory™ 10 Chamber with 2 Solid over caps, TC, Sterile (with 12 Sterile Vented over caps Included respectively)	6
771422	NEST BioFactory™ 40 Chamber with 2 Solid over caps, TC, Sterile (with 4 Sterile Vented over caps Included respectively)	2



740913



740901



740213

Cat.No.	Description	/Pack	/Case
740913	Filter Adapter Cap	1	20
740901	Solid Over Cap	1	20
740213	Cap with Filter Adapter Cap	1	10

## Guidelines for use

### Cell culture



Pour the prepared suspension into the BioFactory™ (recommended volume of 150-200 mL per layer).



Turn the BioFactory™ Chamber 90° make sure the liquid at the same horizontal.



Turn the BioFactory™ Chamber 90° so that the filling and venting ports are up (as shown). It is normal for the medium level in the bottom chamber section to be slightly higher.



Gently lower the BioFactory™ Chamber to its normal horizontal incubation position and gently tilt the chamber back and forth until the surface of each chamber is completely covered with medium.



Put the BioFactory™ into the incubator.



Watch operation video

### Precautions

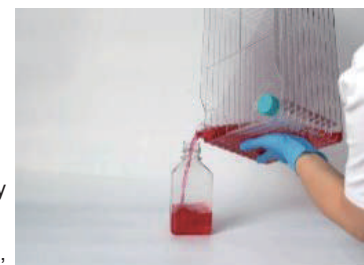
1. Please pre-heat the cell factory and culture medium to the culture temperature: since it takes a long time for a large incubator to reach the set culture temperature, pre-heating the cell factory and culture medium to the culture temperature before starting the experiment may speed up cell attachment and significantly increase cell recovery.
2. Slow operating is required to avoid occurrence of air bubbles caused by sharp shaking: air bubbles may lead to flowing the medium from an upper layer to a lower layer.
3. Avoid spraying alcohol onto the breathable cover, since alcohol may wet the hydrophobic membrane filter and make it impermeable and consequently affect the gas exchange or cause pressure imbalance during operations.

### Cell Harvest

1. After the culture is completed, pour the culture medium out.
2. Wash the factory with the calcium-free and magnesium-free phosphate buffer solution (CMF-PBS) (40-50 mL / layer) and if necessary, repeat the washing process.
3. Digestion: pre-heat the digestion solution (10-40 mL / layer) in advance.
4. Collection: centrifuge for 5 mins at 1000 rpm, remove the digestion solution and collect cells.
5. Washing: wash the incubator with CMF-PBS or culture medium after digestion.

### Precautions

1. Ensure that the culture surface of each layer is completely immersed in the CMF-PBS, and gently shake the cell factory forward and backward to wash off the residual culture medium.
2. Distribute the digestion solution evenly to each layer; gently tilt the incubator forward and backward, left and right to ensure that the digestion solution has completely covered the culture surface; gently tap the incubator to help the cells detach from the surface.
3. Since it is unable to clearly observe the digestion status of the cells in the middle layers of a cell factory, it is recommended to refer to the digestion status of a culture flask or a single-layer cell factory under exactly the same culture conditions. Or, use a dedicated observation platform for multiple-layer cell incubators to observe the growth status of cells in each layer.
4. If there are numerous cells present in the washing solution or the culture layers of the cell factory, it is necessary to wash multiple times or adjust the procedure of cell digestion.
5. Even a slight deviation of the culture temperature may affect the cell harvest rate, so it is required to pay close attention as to whether or not the culture temperature is exactly the set temperature.



# PETG Erlenmeyer Flask, Flat-bottom



## Features

- PETG Bottle.
- Sterilized by E-beam, SAL=10<sup>-6</sup>.
- Non-Pyrogenic, DNase/Rnase free.
- Both vent filter caps and seal caps are available.
- Vent caps with 0.22 µm hydrophobic filters for gas exchange without contamination.

Cat.No.	Description	Dimension (mm)			/Case
		Height	Bottleneck Dia	Bottom Dia	
781001	125 mL PETG Erlenmeyer Flasks, Flat Bottom, Seal Caps	106.8	34	66	24
781011	125 mL PETG Erlenmeyer Flasks, Flat Bottom, Vent Filter Caps	106.8	34	66	24
782001	250 mL PETG Erlenmeyer Flasks, Flat Bottom, Seal Caps	137.8	34	83	12
782011	250 mL PETG Erlenmeyer Flasks, Flat Bottom, Vent Filter Caps	137.8	34	83	12
783001	500 mL PETG Erlenmeyer Flasks, Flat Bottom, Seal Caps	175.8	39	101	12
783011	500 mL PETG Erlenmeyer Flasks, Flat Bottom, Vent Filter Caps	175.8	39	101	12
784001	1000 mL PETG Erlenmeyer Flasks, Flat Bottom, Seal Caps	213.3	39	127	6
784011	1000 mL PETG Erlenmeyer Flasks, Flat Bottom, Vent Filter Caps	213.3	39	127	6



# PC Erlenmeyer Flask, Flat-bottom



## Features

- PC Bottle.
- Vent caps with 0.2  $\mu\text{m}$  hydrophobic filters for gas exchange without contamination.
- Individually packaged in sterile bags
- Sterilized by E-beam, SAL= $10^{-6}$ .
- Non-Pyrogenic, DNase/Rnase free.

Cat.No.	Volume (mL)	Cap Style	Size(mm)			/Case
			Height	Bottleneck Diameter	Bottom Diameter	
781101	125 mL	Seal Cap	106.8	34	66	24
781111	125 mL	Vent Filter Cap	106.8	34	66	24
782101	250 mL	Seal Cap	137.8	34	83	12
782111	250 mL	Vent Filter Cap	137.8	34	83	12
783101	500 mL	Seal Cap	175.8	39	101	12
783111	500 mL	Vent Filter Cap	175.8	39	101	12
784101	1000 mL	Seal Cap	213.3	39	127	6
784111	1000 mL	Vent Filter Cap	213.3	39	127	6
785001	2000 mL	Seal Cap	285	47	162	6
785011	2000 mL	Vent Filter Cap	285	47	162	6
786001	3000 mL	Seal Cap	253	67	230	4
786011	3000 mL	Vent Filter Cap	253	67	230	4

## Precautions

The amount of culture medium should be well-controlled: around 30%-40% of the total volume of the flask.

For the control of the rotation speed during the cultivation process, it is recommended that the starting rotation speed is 75-125 rpm which can be adjusted in practice.

Pay attention to the water level in a liquid-oscillating shaker, or the temperature in an air-oscillating shaker.

# PC Erlenmeyer Flask, Baffled



## Advantage of Baffled Bottom

Baffle-designed Erlenmeyer Flasks with flask shakers provide optimal and consistent solution after agitated.

## Features

- PC Bottle.
- Vent caps with 0.2  $\mu\text{m}$  hydrophobic filters for gas exchange without contamination.
- Individually packaged in sterile bags.
- Sterilized by E-beam, SAL= $10^{-6}$ .
- Non-Pyrogenic, DNase/Rnase free.

Cat.No.	Description	Dimension (mm)			/Case
		Height	Bottleneck Dia	Bottom Dia	
781201	125 mL PC Conical Erlenmeyer Flasks, with Baffles, Seal Caps	106.8	34	66	24
781211	125 mL PC Conical Erlenmeyer Flasks, with Baffles, Vent Filter Caps	106.8	34	66	24
782201	250 mL PC Conical Erlenmeyer Flasks, with Baffles, Seal Caps	137.8	34	83	12
782211	250 mL PC Conical Erlenmeyer Flasks, with Baffles, Vent Filter Caps	137.8	34	83	12
783201	500 mL PC Conical Erlenmeyer Flasks, with Baffles, Seal Caps	175.8	39	101	12
783211	500 mL PC Conical Erlenmeyer Flasks, with Baffles, Vent Filter Caps	175.8	39	101	12
784201	1000 mL PC Conical Erlenmeyer Flasks, with Baffles, Seal Caps	213.3	39	127	6
784211	1000 mL PC Conical Erlenmeyer Flasks, with Baffles, Vent Filter Caps	213.3	39	127	6

# PC Erlenmeyer Flask, High Efficiency



2L High Efficiency



3L High Efficiency



3L Wide Mouth, Flat-bottom



5L High Efficiency

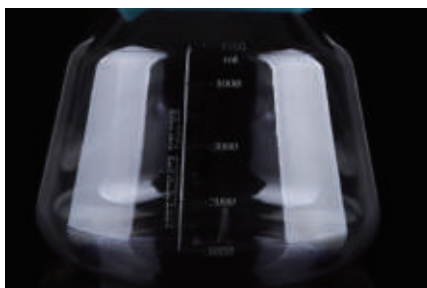
High-efficiency, large-volume culture flasks allow cells to show strong viability with large expression amount of proteins in the culture of mammalian cells and insect cells. During the culturing process, the use rate of the shaker is significantly increased, and the survival rate and viability of cells are both dramatically elevated. NEST culture flasks also provide high repeatability, which allows highly inter-batch consistency of cell growth and yield.

## Features

- Qualified by the USP Class 6 Standard, PC bottle with high transparency, is resistant to strong impact, oxidation and high temperature up to 121 C.
- There's a scale made by injection molding on the flask body to facilitate observing the filled liquid volume.
- Sterilized by E-beam, SAL=10<sup>-6</sup>.
- Non-Pyrogenic, DNase/Rnase free.
- Individually packaged in sterile bag.

## Advantage of 3L Wide-mouth High Efficient Erlenmeyer Flask, Flat-bottom

The bottom diameter of the 3L wide-mouth high efficiency erlenmeyer flask is consistent with that of the 3L high efficiency erlenmeyer flask, and its mouth diameter adopts the neck size of the 5L high efficiency erlenmeyer flask, which not only saves space usage, but also increases oxygen flux, also increasing the efficiency of cell culture.



Obvious and accurate scale



Independent handle, detachable



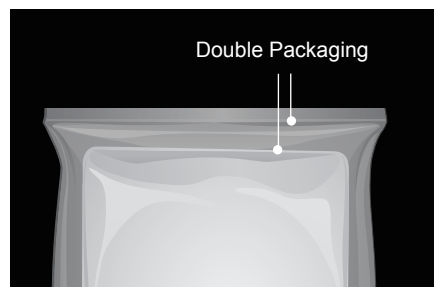
The oral anti-hanging liquid is easy to pour



The vent cap is covered with a 0.2 μm vent membrane, watertight but not airtight



Extended bottleneck, easy to hold



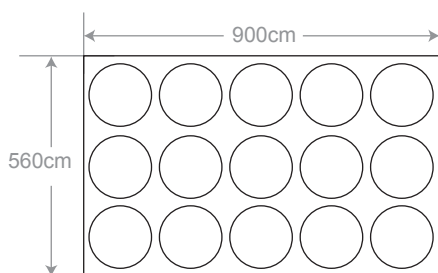
E-beam sterilized, SAL=10<sup>-6</sup>, individually packaged, easy to use



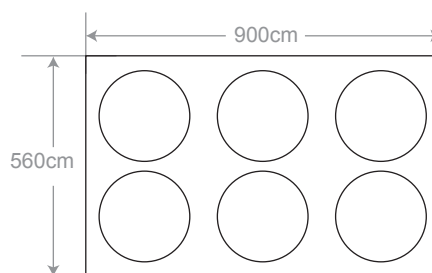
# PC Erlenmeyer Flask, High Efficiency

Cat.No.	Description	Dimension (mm)			/Case
		Height	Bottleneck Dia	Bottom Dia	
785101	2L PC High Efficient Erlenmeyer Flasks, Flat-bottom, Seal Caps	213.5	67	162	4
785111	2L PC High Efficient Erlenmeyer Flasks, Flat-bottom, Vent Filter Caps	213.5	67	162	4
786101	3L PC High Efficient Erlenmeyer Flasks, Flat-bottom, Seal Caps	253.5	67	162	4
786111	3L PC High Efficient Erlenmeyer Flasks, Flat-bottom, Vent Filter Caps	253.5	67	162	4
787001	5L PC High Efficient Erlenmeyer Flasks, Flat-bottom, Seal Caps	285.5	90	230	4
787011	5L PC High Efficient Erlenmeyer Flasks, Flat-bottom, Vent Filter Caps	285.5	90	230	4
786501	3L PC High Efficient Erlenmeyer Flasks, Wide-mouth, Flat-bottom, Seal Caps	253.5	90	162	4
786511	3L PC High Efficient Erlenmeyer Flasks, Wide-mouth, Flat-bottom, Vent Filter Caps	253.5	90	162	4

## High Efficient Erlenmeyer Flask VS Erlenmeyer Flask



3L High Efficiency Erlenmeyer Flask



3L Erlenmeyer Flask



3L High Efficiency Erlenmeyer Flask



3L Erlenmeyer Flask

### Take 3L high efficient erlenmeyer flask and 3L conical erlenmeyer flask as example:

- As for the same shaker, more 3L High Efficient Erlenmeyer Flask can be placed on, which greatly reduce the usage rate and client's R&D costs of the shaker.
- The amount of foam can be efficiently controlled by low shear force created by cells (3L high efficiency erlenmeyer flask and 3L conical erlenmeyer flask as example).
- The breathable membrane area of the High Efficiency Erlenmeyer Flask cover is bigger, which enables a higher oxygen flux.
- Equipped with transfer Cap, more safe and convenient operation.



# PC High Efficient Erlenmeyer Flask, with Baffle



## Advantage of Baffled Bottom

Baffle-designed Erlenmeyer Flasks with flask shakers provide optimal and consistent solution after agitated.

## Features

- Qualified by the USP Class 6 Standard, PC bottle with high transparency, is resistant to strong impact, oxidation and high temperature up to 121 °C.
- There's an injection-molded scale on the flask body for liquid volume observation.
- Sterilized by E-beam, SAL=10<sup>-6</sup>.
- Non-Pyrogenic, DNase/Rnase free.
- Individually packaged in sterile bag.

Cat.No.	Description	Dimension (mm)			/Case
		Height	Bottleneck Dia	Bottom Dia	
785105	2L PC High Efficient Erlenmeyer Flasks, with Baffles, Seal Caps	213.5	67	162	4
785115	2L PC High Efficient Erlenmeyer Flasks, with Baffles, Vent Filter Caps	213.5	67	162	4
786105	3L PC High Efficient Erlenmeyer Flasks, with Baffles, Seal Caps	253.5	67	162	4
786115	3L PC High Efficient Erlenmeyer Flasks, with Baffles, Vent Filter Caps	253.5	67	162	4
786505	3L PC High Efficient Erlenmeyer Flasks, Wide-mouth, with Baffles, Seal Caps	253.5	90	162	4
786515	3L PC High Efficient Erlenmeyer Flasks, Wide-mouth, with Baffles, Vent Filter Caps	253.5	90	162	4
787005	5L PC High Efficient Erlenmeyer Flasks, with Baffles, Seal Caps	285.5	90	230	4
787015	5L PC High Efficient Erlenmeyer Flasks, with Baffles, Vent Filter Caps	285.5	90	230	4

# Square Storage Bottle



NEST's Square Storage Bottle is an ideal option of storage and transportation container for culture medium, serum, buffer, intermediates and reagents for biopharmaceutical and biotechnology companies, reagent R&D institutions, etc. The two kinds of raw materials of the bottle, PET and PETG, are both in line with USP Class VI Class USP<661> biocompatibility requirements and ISO10993 Quality System.

## Features

- PET wall is light in weight and resistant to low temperature, while PETG wall is thick, durable, and resistant to fracture.
- High chemical durability, suitable for the storage of high purity reagent, standard particle materials and samples.
- High transparency, strong mechanical strength and shock resistance, and convenient for observation and transportation.
- Highly tolerant of low temperature, UV rays, and resistant to fracture.
- Smooth inner surface can minimize the residue on the wall.
- Sterile, DNase/RNase/Pyrogen free.



Calibration clear

# Square Storage Bottle

## Application

- Storage or sampling of active pharmaceutical ingredients and bulk intermediates.
- Experiments or storage of buffers, culture solutions, intermediates and supernatants, etc.
- Storage of specific PH-sensitive liquid.

## Precaution

- Unfit for autoclave.
- Not a vessel to be heated.

Cat.No.	Description	/Pack	/Case
354111	30 mL PETG Square Storage Bottle, Sterile	5	40
354511	60 mL PETG Square Storage Bottle, Sterile	6	48
353511	125 mL PETG Square Storage Bottle, Sterile	6	48
352511	250 mL PETG Square Storage Bottle, Sterile	6	48
333511	500 mL PETG Square Storage Bottle, Sterile	8	24
334511	1000 mL PETG Square Storage Bottle, Sterile	4	12
354611	60 mL PET Square Storage Bottle, Sterile	6	48
353611	125 mL PET Square Storage Bottle, Sterile	6	48
352611	250 mL PET Square Storage Bottle, Sterile	6	48
333001	500 mL PET Square Storage Bottle, Sterile	8	24
334001	1000 mL PET Square Storage Bottle, Sterile	4	12



Cat.No.	Description	/Pack	/Case
354113	30 mL PETG Square Storage Bottle, Sterile	40	7
354513	60 mL PETG Square Storage Bottle, Sterile	40	5
353513	125 mL PETG Square Storage Bottle, Sterile	24	4
352513	250 mL PETG Square Storage Bottle, Sterile	30	2
333513	500 mL PETG Square Storage Bottle, Sterile	20	2
334513	1000 mL PETG Square Storage Bottle, Sterile	12	2



# 250 mL & 500 mL Centrifuge Tube



**500 mL Racked**

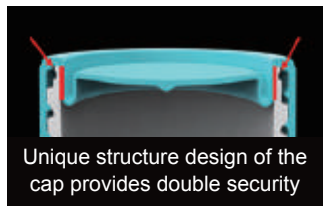


**250 mL Racked**

The 250 mL & 500 mL centrifuge tubes can process a large number of samples at one time and are suitable for the separation and harvest of large amounts of cells, supernatants, bacteria, yeast and tissue samples. Therefore, they are widely used in the field of life sciences and clinical.

## Application

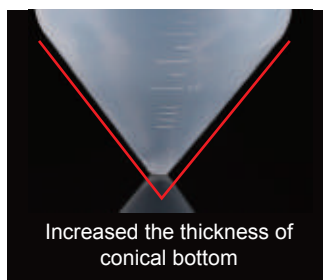
- Separation of sediments after chemical reactions for harvest and application.
- Harvest of biomacromolecules, inorganics and organics.
- In biochemistry and other biological fields, usually used to centrifuge and collect a large volume of cells, biomacromolecules and supernatants.



Unique structure design of the cap provides double security



Newly added o-ring



Increased the thickness of conical bottom

## Features

- Unique structure design of the cap provides double security, further improving the tight seal ability.
- Increased the thickness of conical bottom in order to improve the maximum centrifugal limit.
- Polypropylene tube and high density polyethylene cap.
- Max. centrifugal limit 7000xg.
- Temperature range: -80 °C~120 °C.
- Clear scale.
- DNase, RNase and pyrogen free.
- Electron beam sterilization, SAL=10<sup>-6</sup>.
- Separation of sediments after chemical reactions for harvest and application.
- Harvest of biomacromolecules, inorganics and organics.
- In biochemistry and other biological fields, usually used to centrifuge and collect a large volume of cells, biomacromolecules and supernatants.

Cat.No.	Description	/Pack	/Case
622001	250 mL Centrifuge Tubes, Bulk	6	102
623001	500 mL Centrifuge Tubes, Bulk	6	36
622002	250 mL Centrifuge Tubes, Racked	6	24
623002	500 mL Centrifuge Tubes, Racked	4	24



## Product Description

The barrel, the tap and the screw cap of the carboy are made from polypropylene (PP) and the gasket is made from thermoplastic elastomer (TPE), all of which are autoclavable for sterilization before use to prevent the growth of bacteria and other microorganisms. It is mainly used for storing and dispensing solutions, culture medium, also ideal for sterile water. The barrel is moulded with a 1-gallon or 5 liter scale markings for easy identification of liquid levels during operation. The sealing performance is secured by the TPE gasket and the thread on the finish, which is well matched to the cap.

## Application

- Storage container for raw pharmaceutical materials or culture media that require autoclaving sterilization.
- Storage container for bulk raw pharmaceutical materials or other substances.
- Storage container for sterile water.

Cat.No.	Description	Sterilization	/Case
789001	10 L Carboy, Autoclavable, with Handle, with Tap	NO	4
789101	20 L Carboy, Autoclavable, with Handle, with Tap	NO	3
789011	10 L Carboy, Autoclavable, with Handle	NO	6
789111	20 L Carboy, Autoclavable, with Handle	NO	3

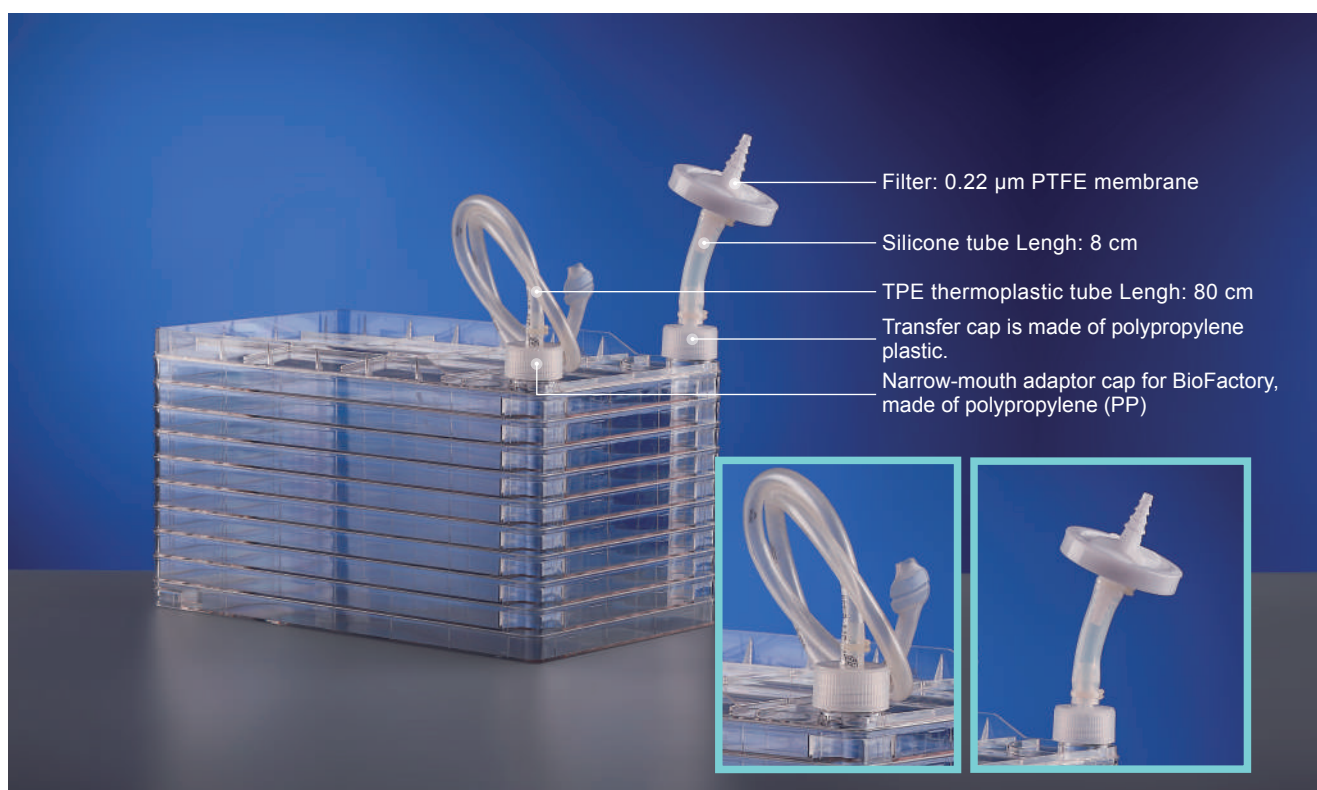
# Closed System Solution





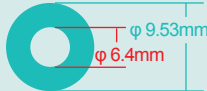
# Biofactory Closed System Solution

"NEST BioFactory™ (10 Chambers) pre-installed with transfer cap system" is a pre-installed set of transfer tubes and a filter, which can directly transfer culture media and cells to or out of BioFactory™ in a sterile environment. Pre-assembled tubes save the operations of designing, assembling and sterilization, lowering the risk of exogenous pollution in drug development and production and improving the production efficiency.



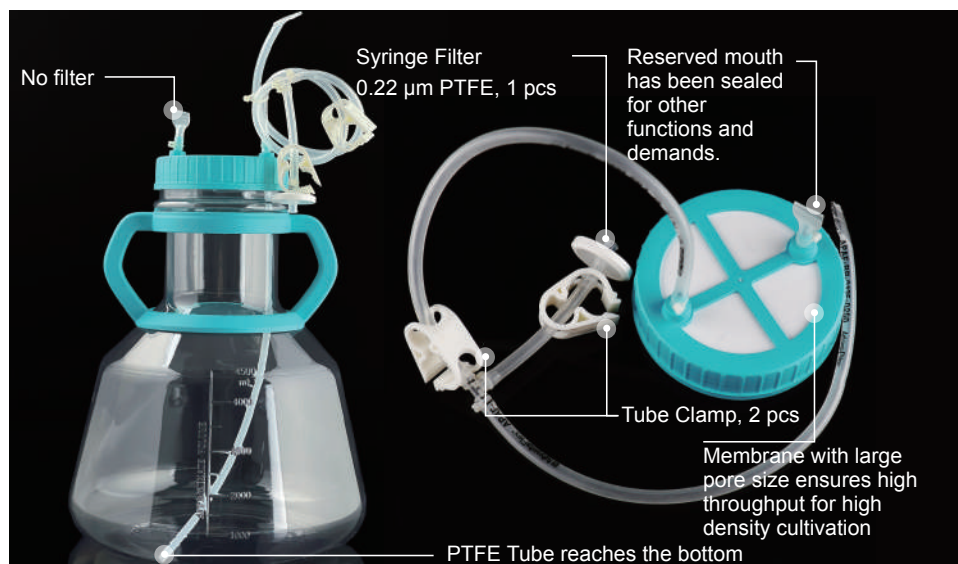
## Features

- Closed liquid transfer, avoiding open operation and reducing the risk of pollution in the process of liquid transfer.
- The liquid inlet tube can be aseptically welded under a normal environment.
- High-quality materials and smooth inner wall of the tube, ensuring an excellent transmission performance.
- Electron beam sterilization, SAL =  $10^{-6}$ .
- No endotoxin and no components of animal origin.

Cat.No.	Description	0.2 $\mu$ m Filter Membrane area	External Liquid Transfer Tube			/Case
			Connector	Dia.	Length	
C71554-BZD080A	Biofactory™ 10 Chamber	20 cm²	Heat Seal	TPE Tube: 1/4" ID, 3/8" OD 	80 cm	2



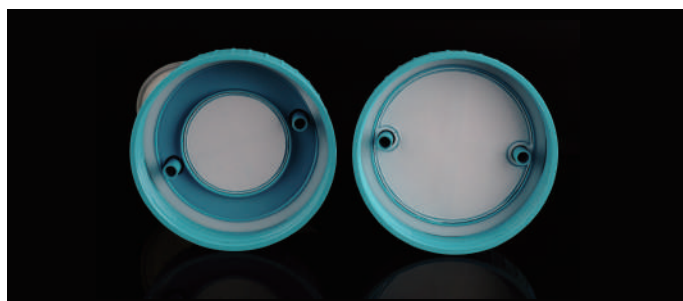
# High Efficient Erlenmeyer Flask Closed System



**5L High Efficient Erlenmeyer Flask and Multi-function Transfer Cap**

**VS**

**787081 New Product 5L High Efficient Erlenmeyer Flask with Tube**



## Features

- It is pre-installed on the High Efficiency Erlenmeyer Flask, which realizes the closed transfer of liquid and reduces the risk of external contamination during the process of capping and screwing.
- The transfer cap comes with a large filter membrane and high oxygen flux. No external air filter is required to ensure high-density culture of cells. While the overall height is reduced, the applicable range of the shaker is wider, and the utilization rate of the shaker is increased.

Cat.No.	Description	0.2μm Filter Membrane area	External Liquid Transfer Tube		/Case
			Dia.	Length	
C10122-AZB050A	2L High Efficiency Erlenmeyer Flask, Bi-directional Transfer Cap with TPE Tube	4.5 cm <sup>2</sup>	TPE Thermoplastic Hose, Hose Diameter: 1/8" ID, 1/4" OD Pipe Connect: Aseptic welding / Heat-seal	50 cm	4
C10222-AZB050A	3L High Efficiency Erlenmeyer Flask, Bi-directional Transfer Cap with TPE Tube	4.5 cm <sup>2</sup>		50 cm	4
C10322-AZB050A	3L Wide-mouth High Efficiency Erlenmeyer Flask, Bi-directional Transfer Cap with TPE Tube	4.5 cm <sup>2</sup>		50 cm	4
C20122-AZB050A	2L High Efficiency Erlenmeyer Flask with Baffles, Bi-directional Transfer Cap with TPE Tube	4.5 cm <sup>2</sup>		50 cm	4
C20222-AZB050A	3L High Efficiency Erlenmeyer Flask with Baffles, Bi-directional Transfer Cap with TPE Tube	4.5 cm <sup>2</sup>		50 cm	4
C20322-AZB050A	3L Wide-mouth High Efficiency Erlenmeyer Flask, Bi-directional Transfer Cap with TPE Tube	4.5 cm <sup>2</sup>		50 cm	4
C10422-AZB090A	5L High Efficiency Erlenmeyer Flask, Bi-directional Transfer Cap with TPE Tube	4.5 cm <sup>2</sup>		90 cm	4
C10442-AKA060A	5L High Efficient Erlenmeyer Flask (with tube)	No Filter		30+30 cm	4

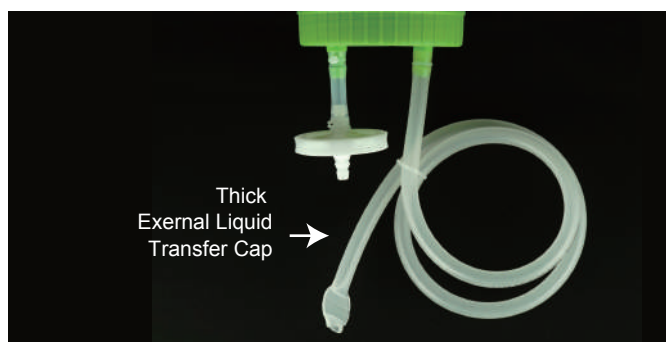


# Transfer Caps for High Efficient Erlenmeyer Flasks



## Features

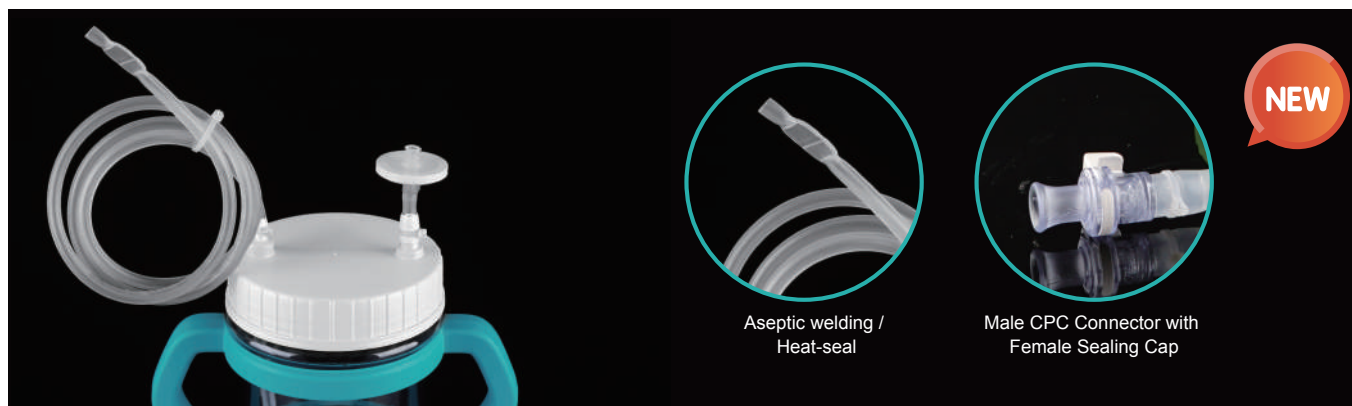
- Closed system reduces the risks of contamination during liquid transfer.
- One-piece construction of caps and connectors reduces the risk of leakage and media residue.
- Caps of various diameters are available and aseptic welding of liquid inlet tubing under normal conditions is supported.
- High-quality materials and smooth inner wall of the tubing provide an excellent transfer performance.
- Sterilized by E-beam, SAL=10<sup>-6</sup>.
- Endotoxin-free, and no ingredients of animal origin.
- Individually packaged in sterile bag.



## Inverted Liquid Transfer Caps

Cat.No.	Compatibility	0.2µm Filter Membrane area	External Liquid Transfer Tube			Internal Liquid Transfer Tube		/Case
			Connector	Dia.	Length	Dia.	Length	
C10131-AZC050B	2L	13.8cm <sup>2</sup>	Heat Seal	TPE Tube 1/8" ID, 1/4" OD	50 cm	PTFE Tube	24 cm	4
C10231-AZC050B	3L	13.8cm <sup>2</sup>			50 cm		28 cm	4
C10331-AZC050B	3L Wide-mouth	13.8cm <sup>2</sup>			50 cm		28 cm	4
C10431-AZC090B	5L	13.8cm <sup>2</sup>			90 cm		34 cm	4
C10133-DZC050B	2L	13.8cm <sup>2</sup>	Heat Seal	TPE Tube 1/4" ID, 7/16" OD	50 cm	PTFE Tube	24 cm	4
C10233-DZC050B	3L	13.8cm <sup>2</sup>			50 cm		28 cm	4
C10333-DZC050B	3L Wide-mouth	13.8cm <sup>2</sup>			50 cm		28 cm	4
C10433-DZC090B	5L	13.8cm <sup>2</sup>			90 cm		34 cm	4

# Transfer Caps for High Efficient Erlenmeyer Flasks



## Bi-directional Liquid Transfer Cap System

### Feature

- For aseptic transfer of culture medium and cell culture solution.
- One end of the pipeline is connected to the MPC series connector, which increases the convenience and safety in use. The male connector and the sealing cap are tightly connected to prevent accidental disconnection, and the connector can be rotated to reduce pipeline distortion.

Cat.No.	Compatibility	0.2μm Filter Membrane area	External Liquid Transfer Tube			Internal Liquid Transfer Tube		/Case
			Connector	Dia.	Length	Dia.	Length	
C10122-AZB050B	2L	4.5cm <sup>2</sup>	Heat Seal		50 cm		24 cm	4
C10222-AZB050B	3L	4.5cm <sup>2</sup>			50 cm		28 cm	4
C10322-AZB050B	3L Wide-mouth	4.5cm <sup>2</sup>			50 cm		28 cm	4
C10422-AZB090B	5L	4.5cm <sup>2</sup>			90 cm		34 cm	4
C10123-BZC050B	2L	13.8cm <sup>2</sup>	Heat Seal		50 cm		24 cm	4
C10223-BZC050B	3L	13.8cm <sup>2</sup>			50 cm		28 cm	4
C10323-BZC050B	3L Wide-mouth	13.8cm <sup>2</sup>			50 cm		28 cm	4
C10423-BZC090B	5L	13.8cm <sup>2</sup>			90 cm		34 cm	4
C10123-FBC050B	2L	13.8cm <sup>2</sup>	MPC Male Connector		50 cm		24 cm	4
C10223-FBC050B	3L	13.8cm <sup>2</sup>			50 cm		28 cm	4
C10323-FBC050B	3L Wide-mouth	13.8cm <sup>2</sup>			50 cm		28 cm	4
C10423-FBC090B	5L	13.8cm <sup>2</sup>			90 cm		34 cm	4
C10123-FDC050B	2L	13.8cm <sup>2</sup>	MPC Female Connector		50 cm		24 cm	4
C10223-FDC050B	3L	13.8cm <sup>2</sup>			50 cm		28 cm	4
C10323-FDC050B	3L Wide-mouth	13.8cm <sup>2</sup>			50 cm		28 cm	4
C10423-FDC090B	5L	13.8cm <sup>2</sup>			90 cm		34 cm	4

# Transfer Caps for High Efficient Erlenmeyer Flasks



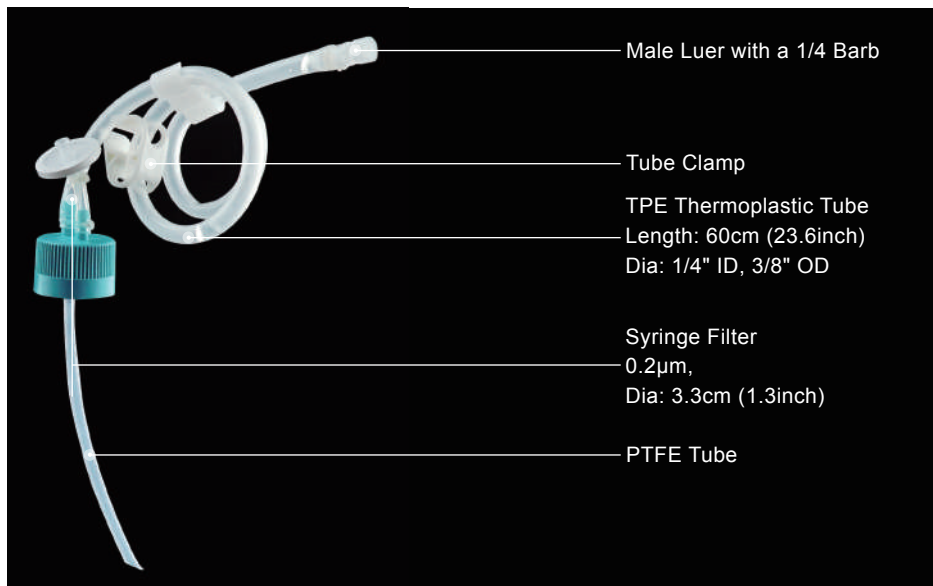
## Multifunction Liquid Transfer Cap

Compatible with 2/3/5L high efficient Erlenmeyer flasks. Different from bi-directional liquid transfer cap, the multifunctional transfer cap can be directly placed in an incubator for culture after the liquid transfer is completed. It can reach a large air flux. The quick sampling connector is composed of a sampling nozzle and a one-way valve, which can prevent the liquid from flowing backwards during the sampling process and ensure the aseptic sampling. The liquid inlet tubing is provided with a PTFE needle filter, which solves the issue of liquid remaining in the tubing during the feeding process.

Cat.No.	Compatibility	0.2μm Filter Membrane area	External Liquid Transfer Tube			Internal Liquid Transfer Tube		/Case
			Connector	Dia.	Length	Dia.	Length	
C10111-AJE052B	2L	20cm <sup>2</sup>	Heat Seal	TPE Tube 1/8" ID, 1/4" OD	50 cm	PTFE Tube	24 cm	4
C10211-AJE052B	3L	20cm <sup>2</sup>			50 cm		28 cm	4
C10311-AJE052B	3L Wide-mouth	20cm <sup>2</sup>			50 cm		28 cm	4
C10411-AJE092B	5L	20cm <sup>2</sup>			90 cm		34 cm	4
C10111-GBB100B	2L	4.5cm <sup>2</sup>	MPC Male Connector	Silicon Tube 3/16" ID, 3/8" OD	100 cm	PTFE Tube	24 cm	4
C10211-GBB100B	3L	4.5cm <sup>2</sup>			100 cm		28 cm	4
C10311-GBB100B	3L Wide-mouth	4.5cm <sup>2</sup>			100 cm		28 cm	4
C10411-GBB100B	5L	4.5cm <sup>2</sup>			100 cm		34 cm	4
C10111-DZB050B	2L	4.5cm <sup>2</sup>	Heat Seal	Thermoplastics Pipes 1/4" ID, 7/16" OD	50 cm	PTFE Tube	24 cm	4
C10211-DZB050B	3L	4.5cm <sup>2</sup>			50 cm		28 cm	4
C10311-DZB050B	3L Wide-mouth	4.5cm <sup>2</sup>			50 cm		28 cm	4
C10411-DZB090B	5L	4.5cm <sup>2</sup>			90 cm		34 cm	4



# Square Storage Bottle Closed System Solution



## Media Bottles, Pre-assembled with Transfer Caps

Cat.No.	Compatibility	0.2µm Filter Membrane area	Tube Material			/Pack	/Case
			Connector	Dia.	Length		
C50921-BHB060B	250 mL	4.5cm <sup>2</sup>	Female Luer Lock Connector with Luer Plug	TPE Tube: 1/4" ID, 3/8" OD	60 cm	1	10
C51021-BHB060B	500 mL	4.5cm <sup>2</sup>				1	10
C51121-BHB060B	1000 mL	4.5cm <sup>2</sup>				1	10
C50921-BBB060B	250 mL	4.5cm <sup>2</sup>	Male MPC connector with Female Sealing Cap	TPE Tube: 1/4" ID, 3/8" OD	60 cm	1	10
C51021-BBB060B	500 mL	4.5cm <sup>2</sup>				1	10
C51121-BBB060B	1000 mL	4.5cm <sup>2</sup>				1	10
C50922-AGB060B	250 mL	4.5cm <sup>2</sup>	Female Luer Lock Connector with Luer Plug	TPE Tube: 1/8" ID, 1/4" OD	60 cm	1	10
C51022-AGB060B	500 mL	4.5cm <sup>2</sup>				1	10
C51122-AGB060B	1000 mL	4.5cm <sup>2</sup>				1	10
C50922-AAB060B	250 mL	4.5cm <sup>2</sup>	Male MPC connector with Female Sealing Cap	TPE Tube: 1/8" ID, 1/4" OD	60 cm	1	10
C51022-AAB060B	500 mL	4.5cm <sup>2</sup>				1	10
C51122-AAB060B	1000 mL	4.5cm <sup>2</sup>				1	10

## Aseptic Transfer Caps for Media Bottles

Cat.No.	Compatibility	0.2µm Filter Membrane area	Tube Material			/Pack	/Case
			Connector	Dia.	Length		
C50921-BHB060A	250 mL	4.5cm <sup>2</sup>	Female Luer Lock Connector with Luer Plug	TPE Tube: 1/4" ID, 3/8" OD	60 cm	1	10
C51021-BHB060A	500 mL	4.5cm <sup>2</sup>				1	10
C51121-BHB060A	1000 mL	4.5cm <sup>2</sup>				1	10
C50921-BBB060A	250 mL	4.5cm <sup>2</sup>	Male MPC connector with Female Sealing Cap	TPE Tube: 1/4" ID, 3/8" OD	60 cm	1	10
C51021-BBB060A	500 mL	4.5cm <sup>2</sup>				1	10
C51121-BBB060A	1000 mL	4.5cm <sup>2</sup>				1	10
C50922-AGB060A	250 mL	4.5cm <sup>2</sup>	Female Luer Lock Connector with Luer Plug	TPE Tube: 1/8" ID, 1/4" OD	60 cm	1	10
C51022-AGB060A	500 mL	4.5cm <sup>2</sup>				1	10
C51122-AGB060A	1000 mL	4.5cm <sup>2</sup>				1	10
C50922-AAB060A	250 mL	4.5cm <sup>2</sup>	Male MPC connector with Female Sealing Cap	TPE Tube: 1/8" ID, 1/4" OD	60 cm	1	10
C51022-AAB060A	500 mL	4.5cm <sup>2</sup>				1	10
C51122-AAB060A	1000 mL	4.5cm <sup>2</sup>				1	10



# Centrifugeal Closed System Solution



## Product Description

The pre-assembled Closed System of Centrifuge Tube is convenient for aseptic sampling and transfer during biological production procedures. Each is double-packed and equipped with a seal cap which can be used to substitute the pipes in case of subsequent centrifugation and analysis.

The pre-assembled Closed System of Centrifuge Tube is convenient for customers in biomedical/biopharmaceutical/vaccine production industries to aseptically sample and transfer the tissue and cell culture/ vaccine solutions, which can effectively save the assembling and sampling time and lower the cost.


## Features

- The pre-assembled Closed System is ready to use at hand. The closed liquid transfer avoids the contamination risk of open transfer and eliminates the necessity of subsequent cleaning validation.
- The pipeline material meets the requirements of industrial pharmaceutical enterprises, and is connected to male taper at the connector, which prevents accidental disconnection and offers convenience.
- The double aseptic packaging suits GMP production.
- Pipelines can be customized according to demand.

**Liquid Transfer Tube 1/8"(3.2mm) ID, 1/4 " (6.4mm) OD, 50cm in length.**

**24mm membrane diameter; 0.2µm pore size of membrane**

**The end of Liquid Transfer Tube is connected to the male taper and luer cap.**

Cat.No.	Compatibility	0.2µm Filter Membrane area	Tube Material			/Pack	/Case
			Connector	Dia.	Length		
C60622-EFB050A	50 mL	4.5cm <sup>2</sup>	Male Luer Connector	TPE Tube: 1/8" ID, 1/4" OD 	50 cm	1	10
C60922-EFB050A	250 mL	4.5cm <sup>2</sup>				1	10
C61022-EFB050A	500 mL	4.5cm <sup>2</sup>				1	10


# Erlenmeyer Flask Closed System Solution

NEW



## Features

- For aseptic transfer of culture medium and cell culture solution.
- One end of the pipeline is connected to the MPC series connector, which increases the convenience and safety in use. The male connector and the sealing cap are tightly connected to prevent accidental disconnection, and the connector can be rotated to reduce pipeline distortion.

Cat.No.	Compatibility	0.2µm Filter Membrane area	Tube Material			/Pack	/Case
			Connector	Dia.	Length		
C30821-EAC050B	125 mL	13.8cm²	MPC Male Connector	<div>Silicon Tube: 1/8" ID, 1/4" OD</div> 	50 cm	1	4
C30921-EAC050B	250 mL	13.8cm²			50 cm	1	4
C31021-EAC050B	500 mL	13.8cm²			50 cm	1	4
C31121-EAC050B	1000 mL	13.8cm²			50 cm	1	4
C30821-EFC050B	125 mL	13.8cm²	Male Luer Connector		50 cm	1	4
C30921-EFC050B	250 mL	13.8cm²			50 cm	1	4
C31021-EFC050B	500 mL	13.8cm²			50 cm	1	4
C31121-EFC050B	1000 mL	13.8cm²			50 cm	1	4



781935 782935 782925 781925



783935 785963 785903 783925



786903 787903 787913 786913

Cat.No.	Description	/Pack	/Case
781905	Seal Cap for 125 mL PC Erlenmeyer Flasks	1	25
781915	Vent Cap for 125 mL PC Erlenmeyer Flasks	1	25
781925	Seal Cap for 250 mL PC Erlenmeyer Flasks	1	25
781935	Vent Cap for 250 mL PC Erlenmeyer Flasks	1	25
782925	Seal Cap for 500&1000 mL PC Erlenmeyer Flasks	1	25
782935	Vent Cap for 500&1000 mL PC Erlenmeyer Flasks	1	25
783905	Seal Cap for 2L Erlenmeyer Flasks	1	25
783915	Vent Cap for 2L Erlenmeyer Flasks	1	25
783925	Seal Cap for 3L Conical Erlenmeyer Flasks/2&3L High Efficient Erlenmeyer Flasks	1	25
783935	Vent Cap for 3L Conical Erlenmeyer Flasks/2&3L High Efficient Erlenmeyer Flasks	1	25
785903	Seal Cap for 3L Wide-mouth/5L Erlenmeyer Flasks	1	20
785913	Vent Cap for 3L Wide-mouth/5L Erlenmeyer Flasks	1	20



Cat.No.	Description	/Pack	/Case
740001	Wide Mouth Seal cap for BioFactory	1	10
740011	Wide Mouth Vent cap for BioFactory	1	10
740101	Narrow Mouth Seal cap for BioFactory	1	10
740111	Narrow Mouth Vent cap for BioFactory	1	10



740201 740302 740402

Cat.No.	Description	/Pack	/Case
740201	Adaptor Cap Wide Mouth to Narrow Mouth	1	10
740302	Adaptor Cap Wide Mouth to 3/8 Inches(9.5 mm) Hose	1	10
740402	Adaptor Cap Wide Mouth to 1/4 Inches(6.4 mm) Hose	1	10



## 744001 SPT-50 Hose

Inner Dia # 3/8 Inches (9.5 mm) , Outer Dia # 5/8 Inches (15.9 mm) , 50 Inches/ 15 meters  
1 pcs / pack



## 746001 C-Flex Welding Hose

Inner Dia# 3/8 Inches (9.5 mm) , Outer Dia# 5/8 Inches (15.9 mm) , 50 Inches/ 15 meters  
1 pcs / pack



## 741001 Adaptor Connector

Adaptor Connector to 3/8 Inches (9.5 mm)Hose  
1 pcs / pack



## 743001 Hose Clamp

Hose clamp for 12-18 mm diameter hose  
10 pcs / pack



## 751001 Y Shape Connector

Y Shape CPC Connector for Inner Dia #3/8 Hose  
1 pcs / pack, 5 pcs / case

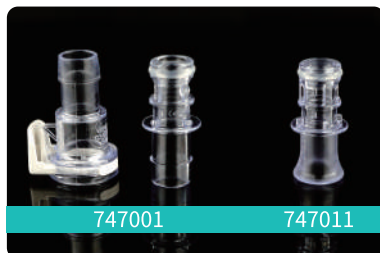


## 749001 T Shape Connector

T Shape CPC Connector for Inner Dia #3/8 Hose  
1 pcs / pack, 5 pcs / case



# Accessories



**747001 CPC Connector**  
(Inner Dia #3/8) for Hose to  
Hose Connecting  
1 pcs / pack, 5 pcs / case

**747011 CPC Sealing Plug**  
10 pcs / case



**0.22µm Vent Filter**  
**742001** Dia 72 mm  
**742011** Dia 58 mm  
1 pcs / pack, 5 pcs / case



**745001 BioFactory  
AccessoryLite Package**  
Hose Clamp\*1+50 mm Vent  
Filter\*1+15 cm SPT-50  
Hose\*1+Silicone Ring\*2



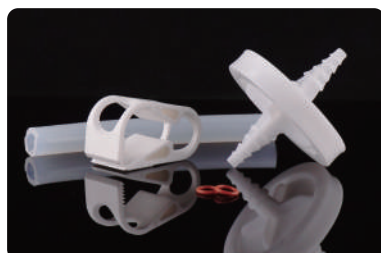
**751101 BioFactory Holder,  
Individually Wrapped**  
1 pcs / pack, 5 pcs / case



Cat.No.	Description	/Pack	/Case
C71254-ZMC000B	BioFactory Cap with PTFE Vent Filter(0.22 µm Φ42mm), without BioFactory , Sterile	1	4
C71255-ZMD000B	BioFactory Cap with PTFE Vent Filter(0.22 µm Φ50mm), without BioFactory	1	4



Cat.No.	Description	/Pack	/Case
C71254-FBA080B	BioFactory Cap with Silicon Tube (80cm 1/4 " ID3/8" OD), Male CPC Connector with Female Sealing Cap, without BioFactory, Sterile	1	4
C71255-HCA080B	BioFactory Cap with Silicon Tube (80cm 3/8 " ID5/8" OD), Male CPC Connector with Female Sealing Cap, without BioFactory, Sterile	1	4



## C71200-ZME000B

Hose Clamp\*1 + 50 mm Vent Filter + 15 cm  
SPT-50 Hose\*1 + Adaptor Connector\*1  
Silicone Ring\*2



## C71275-ZME000B

2 different Adaptor Caps\*1 + Hose Clamp\*1  
+ Adaptor Connector\*1 + 50 mm Vent  
Filter\*1 + Hose Clamp\*1 + 15 m SPT-50  
Hose\*1

# Biobank System



# Cryogenic Vial

NEW



## Cryogenic Vial, Bulk

Internal Thread	External Thread	Description	/Pack	/Case
/	618901	1 mL Cryogenic Vial (No codes), Bulk	96	960
606801	606901	1.5 mL Cryogenic Vial (No codes), Bulk	50	500
607301	/	1.8 mL Cryogenic Vial (No codes), Bulk	50	500
/	607401	2.0 mL Cryogenic Vial (No codes), Bulk	50	500
608301	608401	4.0 mL Cryogenic Vial (No codes), Bulk	50	250
609301	609401	5.0 mL Cryogenic Vial (No codes), Bulk	50	250
/	607441	2.0 mL Cryogenic Vial (Barcode), Bulk	50	500
/	608441	4.0 mL Cryogenic Vial (Barcode), Bulk	50	500



## Cryogenic Vial, Racked

Internal Thread	External Thread	Description	/Pack	/Case
/	618906	1 mL Cryogenic Vial (No codes), 8*12 Racked	96	960
/	606902	1.5 mL Cryogenic Vial (No codes), 10*10 Racked	100	1400
606802	/	1.5 mL Cryogenic Vial (No codes), 10*10 Racked	100	1400
/	607402	2.0 mL Cryogenic Vial (No codes), 10*10 Racked	100	1200
607302	/	1.8 mL Cryogenic Vial (No codes), 10*10 Racked	100	1200
608302	608402	4.0 mL Cryogenic Vial (No codes), 10*10 Racked	100	800
609302	609402	5.0 mL Cryogenic Vial (No codes), 10*10 Racked	100	600
/	607452	2.0 mL Cryogenic Vial (Barcode), 10*10 Racked	100	1000
/	608452	4.0 mL Cryogenic Vial (Barcode), 10*10 Racked	100	1000



# SBS Cryogenic Vial



## Features

- Made of medical high purity polypropylene, a superhard and toughened material with good weather resistance in line with ISO10993 standard.
- Manufactured in GMP Class 100,000 clean room certified by Quality System Certifications including ISO 9001, ISO 13485.
- The new design of water sealing structure optimizes sealing performance, especially better sealing performance of liquid nitrogen and smoother handling.
- 3D Barcode and 2D Barcodes with high-contrast for read reading are laser etched on the bottom and side of the tube, scratch-resistant and not easy to fall off.
- Laser-etched with the internationally common DATAMATRIX codes with high uniqueness, and resistant to organic solvents such as DMSO.
- Screw caps are multi-colour customisable to facilitate sample research.
- The tube rack is compatible with industry-standard SBS format.

## SBS Cryogenic Vial, Bulk

Internal Thread	External Thread	Description	/Pack	/Case
6612521	612541	0.5 mL SBS 3D Cryogenic Vial, Bulk	96	960
/	612641	0.75 mL SBS 3D Cryogenic Vial, Bulk	96	960
612721	612741	1 mL SBS 3D Cryogenic Vial Bulk	96	960
/	612841	2 mL SBS 3D Cryogenic Vial, Bulk	48	480
/	614541	4 mL SBS 3D Cryogenic Vial, Bulk	48	480
/	614641	6 mL SBS 3D Cryogenic Vial, Bulk	24	240
/	614741	8 mL SBS 3D Cryogenic Vial, Bulk	24	240
/	612881	2 mL SBS 2D Cryogenic Vial, Bulk	48	480
/	614581	4 mL SBS 2D Cryogenic Vial, Bulk	48	480

## SBS Cryogenic Vial, Racked

Internal Thread	External Thread	Description	/Pack	/Case
612531	612551	0.5 mL SBS 3D Cryogenic Vial, Racked	96	960
/	612651	0.75 mL SBS 3D Cryogenic Vial, Racked	96	960
612731	612751	1 mL SBS 3D Cryogenic Vial, Racked	96	960
/	612851	2 mL SBS 3D Cryogenic Vial, Racked	48	480
/	612853	2 mL SBS 3D Cryogenic Vial, Racked	100	1000
/	614551	4 mL SBS 3D Cryogenic Vial, Racked	48	480
/	614553	4 mL SBS 3D Cryogenic Vial, Racked	100	1000
/	614651	6 mL SBS 3D Cryogenic Vial, Racked	24	240
/	614751	8 mL SBS 3D Cryogenic Vial, Racked	24	240
/	612891	2 mL SBS 2D Cryogenic Vial, Racked	48	480
/	614591	4 mL SBS 2D Cryogenic Vial, Racked	48	480





## Features

- Made of USP VI polypropylene.
- Non-pyrogenic, DNase/RNase and human DNA free.
- Round Bottom, Self-standing.
- Autoclavable.
- Sterilized by E-beam, SAL=10<sup>-6</sup>.
- Clear graduations and white marking area.
- Recommend to store in gas phase of the nitrogen tank.
- Internal thread Cap: Special screw cap designed with silicone O-ring to secure the sealing under various condition.
- External thread Cap: Special screw cap designed without silicone ring to avoid risk of contamination.
- The internal threaded screw cap and the silicone O-ring adopt a two-color injection molding process to ensure the sealing of the cap and the vial.

## Warning!

Do not use cryogenic vials for storage in the liquid phase of liquid nitrogen. Only store vials in the vapor phase above the liquefied gas. Always use appropriate safety equipment when removing vials from cryogenic storage.

## Refrigeration

The lowest temperature can withstand -196°C (with screw cap). All our polypropylene pipes are suitable for low temperature storage, except for liquid nitrogen.

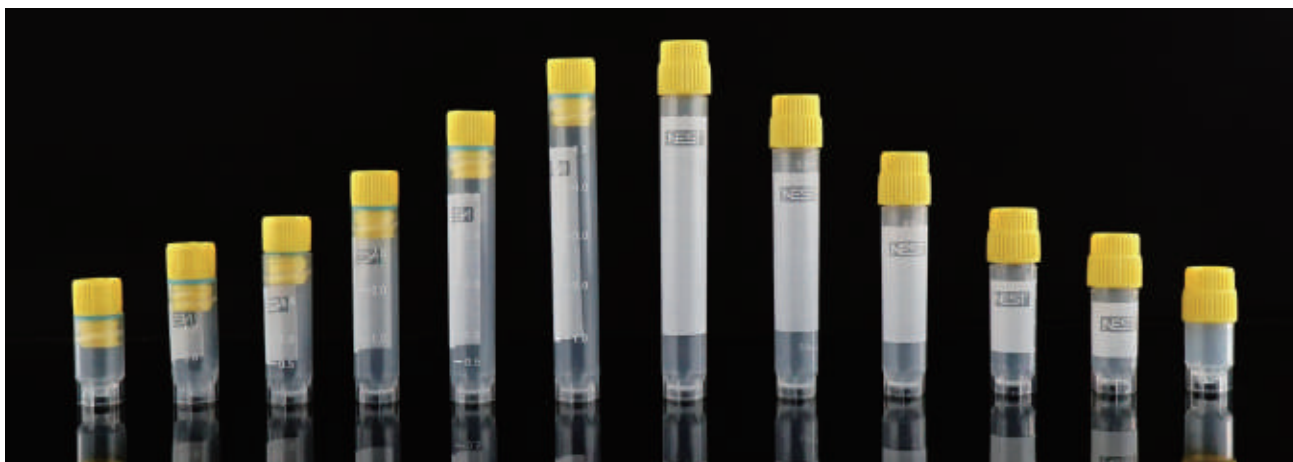
## Cryogenic Vial, Racked

Cat.No.	Description	/Rack	/Case
606102	1.2 mL Internal Thread	100	1400
606103	1.2 mL Internal Thread	81	1134
607102	2mL Internal Thread	100	1200
607103	2 mL External Thread	81	972
608103	4 mL External Thread	81	648
609103	5 mL External Thread	81	486
618102	0.5 mL External Thread	100	1600
618103	0.5 mL External Thread	81	1296
624103	3.0 mL External Thread	81	648
606003	1.2 mL Internal Thread	81	1134
607003	2.0 mL Internal Thread	81	972
608003	4.0 mL Internal Thread	81	648
609003	5.0 mL Internal Thread	81	486
618003	0.5 mL Internal Thread	81	1296
624003	3.0 mL Internal Thread	81	648

## Cryogenic Vial, Bulk

Cat.No.	Description	/Pack	/Case
606801	1.5 mL External Thread	50	2,000
607301	1.8mL External Thread	50	2,000
608301	4.0mL External Thread	50	1,000
609301	5.0mL External Thread	50	1,000
606901	1.5mL Internal Thread	50	2,000
607401	2.0mL Internal Thread	50	2,000
608401	4.0mL Internal Thread	50	1,000
609401	5.0mL Internal Thread	50	1,000

# Cryogenic 2D Matrix Vial



## Features

The materials and quality of NEST 2D barcode cryogenic vials are the same as NEST common cryogenic vials. They can be used with Biobank system.



## 2D barcode

Each vial is permanently marked with a unique 2D barcode, ensuring the vials can be easily and accurately identified when being moved, shipped or even accidentally dropped. Laser 2D barcode on the bottom of each vial allows scanning and decoding at once without removing from rack.

## Warning!

Do not use cryogenic vials for storage in the liquid phase of liquid nitrogen. Only store vials in the vapor phase above the liquefied gas. Store vials in the vapor phase above the liquefied gas instead of the liquid phase of liquid nitrogen.

## Refrigeration

The lowest temperature can withstand  $-196^{\circ}\text{C}$  (with screw cap). All our polypropylene pipes are suitable for low temperature storage, except for liquid nitrogen.

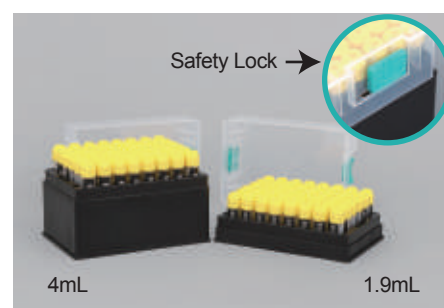
## 2D Barcode Cryogenic Vials, Racked

Cat.No.	Description	/Rack	/Cs
618152	0.5 mL Internal Thread	100	1600
606152	1.2 mL Internal Thread	100	1400
607152	2.0 mL Internal Thread	100	1200
618053	0.5 mL External Thread	81	1296
606053	1.2 mL External Thread	81	1134
607053	2.0 mL External Thread	81	972
624053	3.0 mL External Thread	81	848
608053	4.0 mL External Thread	81	648
609053	5.0 mL External Thread	81	486
618153	0.5 mL Internal Thread	81	1296
606153	1.2 mL Internal Thread	81	1134
607153	2.0 mL Internal Thread	81	972
624153	3.0 mL Internal Thread	81	648
608153	4.0 mL Internal Thread	81	648
609153	5.0 mL Internal Thread	81	486

## 2D Barcode Cryogenic Vials, Bulk

Cat.No.	Description	/Pack	/Case
618041	0.5 mL External Thread	50	2,000
606041	1.2 mL External Thread	50	2,000
607041	2.0 mL External Thread	50	2,000
624041	3.0 mL External Thread	50	1,000
608041	4.0 mL External Thread	50	1,000
609041	5.0 mL External Thread	50	1,000
618141	0.5 mL Internal Thread	50	2,000
606141	1.2 mL Internal Thread	50	2,000
607141	2.0 mL Internal Thread	50	2,000
624141	3.0 mL Internal Thread	50	1,000
608141	4.0 mL Internal Thread	50	1,000
609141	5.0 mL Internal Thread	50	1,000

# 3D Barcode Cryogenic Vial



The integrated injection-molded two-color vial body realizes multi-code tracking, which supports the traceability of samples and data sharing among multiple users, laboratories and automation, rendering warehousing and ex-warehousing of samples more convenient and faster and sample storage safer.

## Warning!

Do not use cryogenic vials for storage in the liquid phase of liquid nitrogen. Only store vials in the vapor phase above the liquefied gas. Always use appropriate safety equipment when removing vials from cryogenic storage.

## Refrigeration

It can withstand the temperature down to  $-196^{\circ}\text{C}$ . All our polypropylene pipes are suitable for low temperature storage, except for liquid nitrogen.



## Three-code-in-one (digital code, barcode, QR code)

- The vial has laser-etched international standard DATAMATRIX 2D code at the bottom.
- The barcode and digital code at the side are anti-fading, anti-deforming, wear-proof and resistant against DMSO and other organic solvents; 100% clear and readable.

## Features

- The vial body is made of medical-grade cryogenic polypropylene (PP) in line with USP Class-6 standards and the vial cap is made of high density polyethylene (HDPE) which is recommended to be used in  $-196^{\circ}\text{C}$  vapor phase of liquid nitrogen.
- DNase/RNase free, non-endotoxin.
- Electron beam sterilization, SAL =  $10^{-6}$ .

## NEST Advantages:

Testing and control in strict accordance with quality requirements.

Low Temperature Test

$-80^{\circ}\text{C}$  cryogenic freezing test,  
 $-196^{\circ}\text{C}$  liquid nitrogen test.

Sealing Test

Sterility Test

Endotoxin Test

DNA and RNA enzyme test

# 3D Barcode Cryogenic Vial

## 3D Barcode Cryogenic Vial, SBS Format

The product meets the SBS standard and provides an effective safety guarantee and management for biological sample libraries and other warehouses of various chemicals and biological products stored at low temperatures.

Cat.No.	Description	/Pack	/Case
612041	3D Barcode 1.9 mL Cryogenic Vial, SBS Format, Self-Standing, External Thread, Caps on, Sterile	48	480
612047	3D Barcode 1.9 mL Cryogenic Vial, SBS Format, Self-Standing, External Thread, Caps Separated, Sterile	48 Vials/Pk 48 Caps/Pk	480
614041	3D Barcode 4.0 mL Cryogenic Vial, SBS Format, Self-Standing, External Thread, Caps on, Sterile	48	480
614047	3D Barcode 4.0 mL Cryogenic Vial, SBS Format, Self-Standing, External Thread, Caps Separated, Sterile	48 Vials/Pk 48 Caps/Pk	480
612051	3D Barcode 1.9 mL Cryogenic Vial, SBS Format, Self-Standing, External Thread, Racked, Sterile	48	480
614051	3D Barcode 4.0 mL Cryogenic Vial, SBS Format, Self-Standing, External Thread, Racked, Sterile	48	480

## 3D Barcode 1.8 mL Cryogenic Vial

Convenient for customers to use, the size of the vial body is suitable for the common freezing boxes in the market.



### External Thread, Double Secure Cap

- Excellent sealing performance: permanent reversal prevention.
- High storage safety: the inside forms a closed and isolated space separated from the outside without leakage, favorable for storage and transportation.
- Memory of use history: the middle cover will be punctured when taking sample out, leaving a mark to know it's been used.
- This function is to ensure the original fidelity of the sample.
- Convenient sampling without contamination: the soft rubber sealing layer can be punctured with a pipette tip or a syringe needle. The outer cover won't be contaminated by the sample, ensuring safety of the personnel and environment.

Cat.No.	Description	/Pack	/Case
627102	3D Barcode 1.8 mL Cryogenic Vial, Self-Standing, 10*10 Racked, External Thread, Double Secure Cap	100	1000
627002	3D Barcode 1.8 mL Cryogenic Vial, Self-Standing, 10*10 Racked, External Thread	100	1000
627101	3D Barcode 1.8 mL Cryogenic Vial, Self-Standing, Bulk, External Thread, Double Secure Cap	50	2000
627001	3D Barcode 1.8 mL Cryogenic Vial, Self-Standing, Bulk, External Thread	50	2000

## Precautions

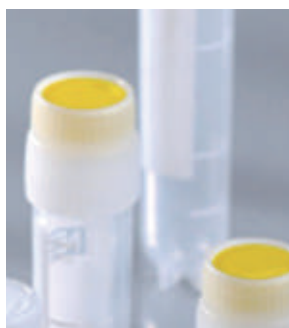
- After the cryogenic vial is taken out of the liquid nitrogen, its bottom should be wiped with a dry towel, so that the QR code can be better identified;
- The freezing storage sample size should not exceed the maximum working volume required by the cryogenic vial;
- During the freezing storage, the vial cap must be tightened, to prevent liquid nitrogen from entering during the freezing process;
- Before the cryogenic vial is taken out of the liquid nitrogen, proper protective measures should be taken first, to avoid causing safety problems in the laboratory.



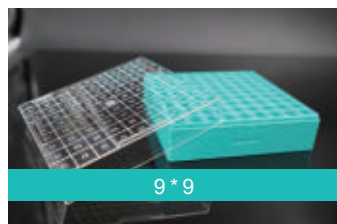
# Cap Insert

Compatible with regular cryogenic vials only.

Cat. No.	Color	/Pack	/Case
611001	White	100	1000
611002	Red	100	1000
611003	Yellow	100	1000
611004	Blue	100	1000
611005	Green	100	1000
611006	Purple	100	1000



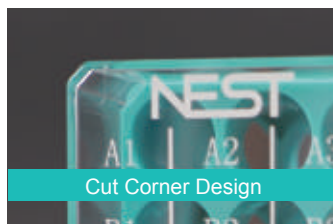
# Cryo Box



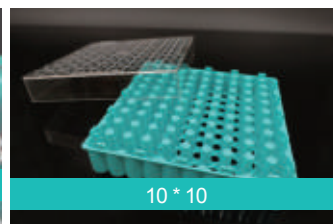
9 \* 9



Groove Design



Cut Corner Design



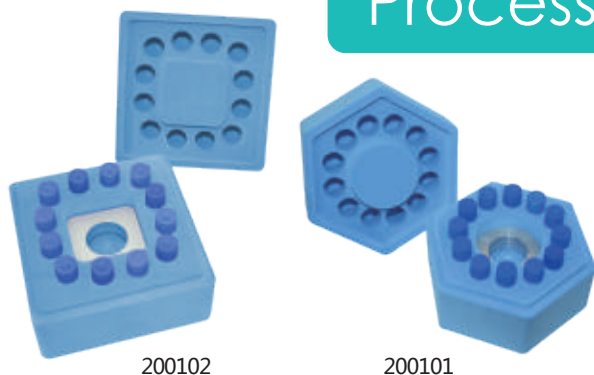
10 \* 10

## Features

- Temperature range: -196℃ to +121℃.
- PC cap with ABS bottom.
- Each box includes drain holes and air vents to minimize condensation.

Cat. No.	Description	Spec	/Case
616204	For 0.5mL vials, Internal Thread Cryogenic Vial Only	10*10	56
616305	For 1.2mL vials, Internal Thread Cryogenic Vial Only	10*10	48
616001	For 2.0mL vials, Internal Thread Cryogenic Vial Only	10*10	40
616224	For 0.5 mL vials	9*9	56
616325	For 1.2 mL vials	9*9	48
616021	For 2.0 mL vials	9*9	40
616421	For 3.0 mL vials	9*9	32
616121	For 4.0 mL vials	9*9	32
616521	For 5.0 mL vials	9*9	32
616031	For 1.8 mL vials	10*10	40
616651 (NEW)	For 1.5 mL vials	10*10	14
616051 (NEW)	For 2.0 mL External thread / 1.8 mL Internal thread vials	10*10	12
616151 (NEW)	For 4.0 mL vials	10*10	8
616551 (NEW)	For 5.0 mL vials	10*10	6

# Process Cooling Box for 12 Tube



## Application

- Holds 12 tubes - 1 mL / 2 mL cryogenic vials or 1.5 mL / 2 mL centrifuge tubes

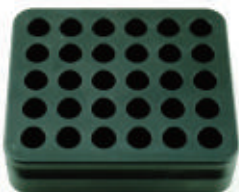
Cat.No.	Shap	Sepecifications (mm)	Weight (g)
200101	Hexagonal	S108X100 (S: Side Length)	120
200102	Square	117X117X100	160

## Ice Free Cool Box



Cat.No.	Weight	Specification	Each kit includes
200103	1300 g	152 x 170 x 123 (mm)	200901, One Ice Free Cool Box 200902, One Cooling Core 200904, One 2 mL Module

### Freezing Box Accessories



### Ice Free Cool Box

Cat.No.	Specification (mm)	Weight (g)
200901	152x170x123	140



### Ice Core

Cat.No.	Name	Temperature Range	Refrigerator's Temperature	Freeze Time	Specifications (mm)
200902	Cooling Core	0.5°C~4°C	-20°C	4h+	105 x 100 x 26
		0.5°C~4°C	-80°C	2h+	105 x 100 x 26
200903	Freeze Core	-18°C~-4°C	-20°C	6h+	105 x 100 x 26
		-18°C~-4°C	-80°C	3h+	105 x 100 x 26

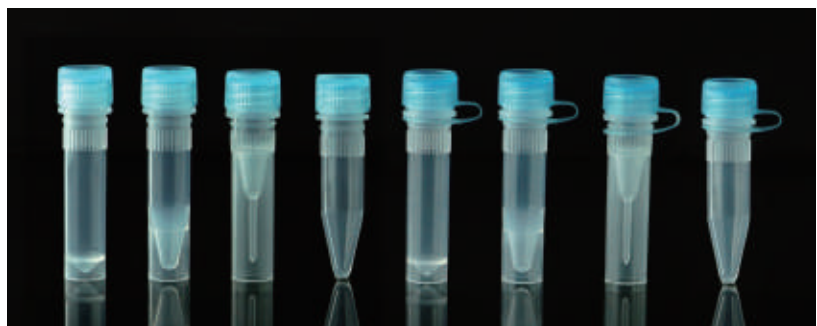
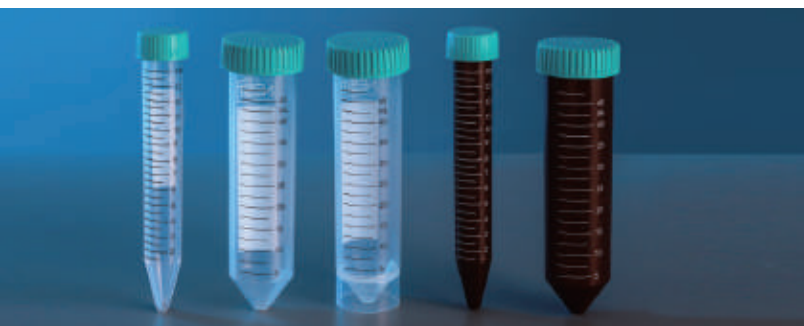
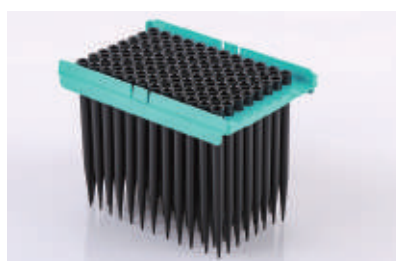
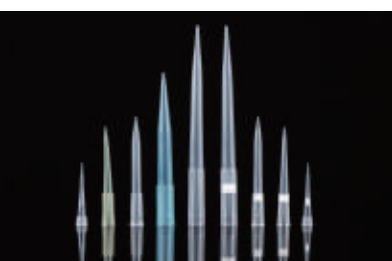
### Tube Module

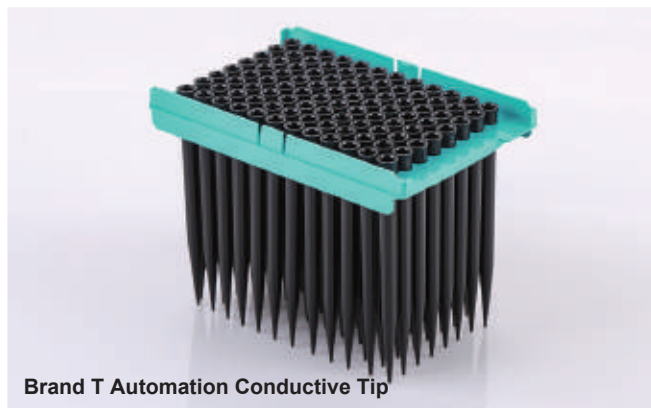
Cat.No.	Name	Specification (mm)	Application
200904	2 mL Module	119 x 101 x 38	2 mL Tube (30-Well, $\phi$ 12.6mm)
200905	1.5 mL Module	119 x 101 x 38	1.5 mL Tube (48-Well, $\phi$ 11mm)
200906	5 mL Module	119 x 101 x 38	5 mL Tube (30-Well)
200907	PCR Module	119 x 101 x 38	PCR Tube or 96-Well Plate ( $\phi$ 7mm)

### Technical Parameters

Temperature Range	Cooling Sources	Cooling Sources Processing	Module Processing	Insulation Time (Open cover)	Insulation Time (Close cover)	Performance Diagram
0.5℃~4℃	Ice core CL	Place it above 4hrs under -20℃ or use after 10mins or above at room temp.	Precooling to 0.5℃~4℃	4h	6h	
0.5℃~4℃		Place it above 4hrs under -20℃, then use directly.	Room Temp			
0.5℃~4℃		Place it above 2hrs under -80℃, then use directly.				
-18℃~ -4℃	Ice core CF	Place it above 6hrs under -20℃.	Precooling 30mins under -20℃	3h	4h	
-18℃~ -4℃		Place it above 3hrs under -80℃.				

# Liquid Transfer





Brand T Automation Conductive Tip



50 µL 200 µL 1000 µL



Brand H Automation Conductive Tip



50 µL 300 µL 1000 µL

It can be applied in R&D of genomics, proteomics, cytomics, immunoassays, metabolomics, biopharmaceuticals and other high flux liquid transfer.

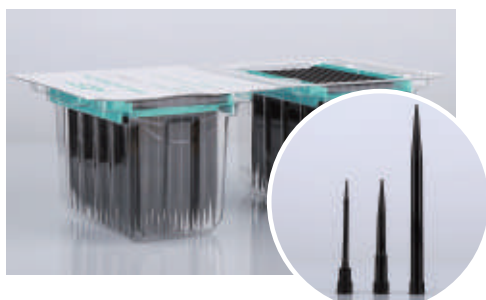
## Advantages

- Medical-grade black conductive polypropylene (PP) materials.
- Electron beam sterilization: Safe and fast, without chemical residue.
- Uniform conductivity: Tips of the same box sharing the same cavity number ensures the product traceability and the conductivity uniformity and improves the accuracy of experimental results, greatly reducing the difference among each tip.
- The smooth inner surfaces of tips supported by the unique processing technology greatly reduces the amount of residual liquid.
- The porous filtration of filter tip ensures optimum performance. And the super hydrophobicity of the tip forms a strong barrier against aerosols thus eliminates the risk of cross-contamination among samples.
- **Strong package:** The package of thickened high-strength blister card is resistant to impact and dropping, which ensures the integrity and safety of the product under harsh transport conditions.
- **Good air tightness and adaptability:** The structure mapping is conducted as per the original adapter and the proven injection-molding ensures that the products have good air tightness and adaptability, improving the mechanical precision of the products during work.
- **Strict quality management and control test:** Class 100,000 clean workshop, effective quality inspections are conducted under strict quality management including tests for DNA, RNA, proteases, and pyrogens, satisfying clients' needs.
- Air tightness test: Precise equipment is used to test the air tightness between the tip and the adapter, to ensure good air tightness for each batch of products.
- Tests for resistance and CV values: A certain number of products are sampled for each batch for inspection, which is conducted by precise and unique measuring tools for accuracy and reliability of the test results to ensure the uniform conductivity of products.



# Robotic Tip

## Automation Conductive Tips for Brand T



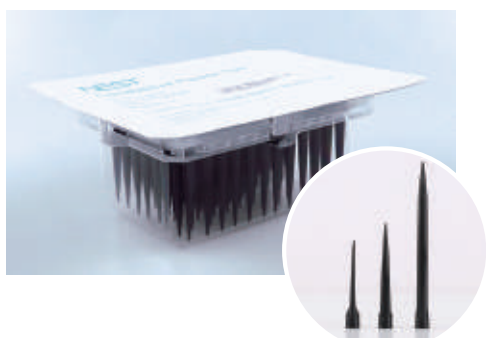
### Blister Packed, 96 tips \*2 Blisters/Pk, Sterile

Cat. No.	Description	/Pack	/Case
332002	50 µL Robotic Tips for Brand T, Conductive	96*2	2304
332012	50 µL Robotic <b>Filter</b> Tips for Brand T, Conductive	96*2	2304
332102	200 µL Robotic Tips for Brand T, Conductive	96*2	2304
332112	200 µL Robotic <b>Filter</b> Tips for Brand T, Conductive	96*2	2304
332202	1000 µL Robotic Tips for Brand T, Conductive	96*2	2304
332212	1000 µL Robotic <b>Filter</b> Tips for Brand T, Conductive	96*2	2304

### Boxed, With Barcode, Sterile, Racked

Cat. No.	Description	/Pack	/Case
332016	50 µL Robotic <b>Filter</b> Tips for Brand T, Conductive	96	4800
332116	200 µL Robotic <b>Filter</b> Tips for Brand T, Conductive	96	4800
332216	1000 µL Robotic <b>Filter</b> Tips for Brand T, Conductive	96	4800

## Automation Conductive Tips for Brand H



### Without Barcode, 96 Tips/Pk, Sterile

NEST Cat.No.	Description	/Pack	/Case
345002	50 µL Robotic Conductive Tips for Brand H	96	2304
345102	300 µL Robotic Conductive Tips for Brand H	96	2304
345202	1000 µL Robotic Conductive Tips for Brand H	96	2304
345012	50 µL Robotic Conductive <b>Filter</b> Tips for Brand H	96	2304
345112	300 µL Robotic Conductive <b>Filter</b> Tips for Brand H	96	2304
345212	1000 µL Robotic Conductive <b>Filter</b> Tips for Brand H	96	2304

### With Barcode, 96 Tips/Pk, Sterile

Cat.No.	Description	/Pack	/Case
345013	50 µL Robotic Conductive <b>Filter</b> Tips for Brand H, with Barcode	96	2304
345113	300 µL Robotic Conductive <b>Filter</b> Tips for Brand H, with Barcode	96	2304
345213	1000 µL Robotic Conductive <b>Filter</b> Tips for Brand H, with Barcode	96	2304

### With Barcode, 96 Tips\*5 Blisters/Pk, Sterile

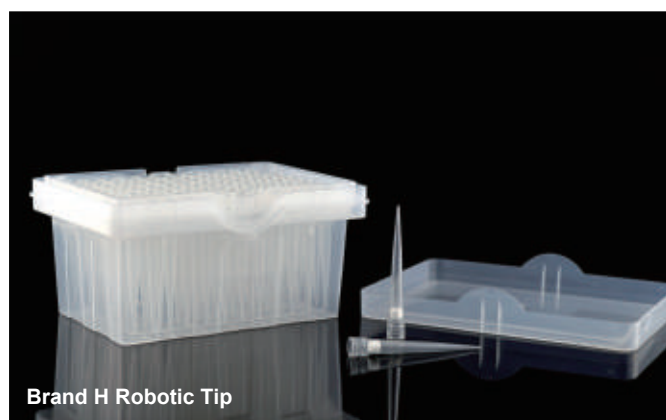
Cat.No.	Description	/Pack	/Case
345015	50 µL Robotic Conductive <b>Filter</b> Tips for Brand H, with Barcode	96*5	5760
345005	50 µL Robotic Conductive Tips for Brand H, with Barcode	96*5	5760
345115	300 µL Robotic Conductive <b>Filter</b> Tips for Brand H, with Barcode	96*5	5760
345105	300 µL Robotic Conductive Tips for Brand H, with Barcode	96*5	5760
345215	1000 µL Robotic Conductive <b>Filter</b> Tips for Brand H, with Barcode	96*5	3840
345205	1000 µL Robotic Conductive Tips for Brand H, with Barcode	96*5	3840

### Boxed, With Barcode, 96 Tips/Pk, Sterile

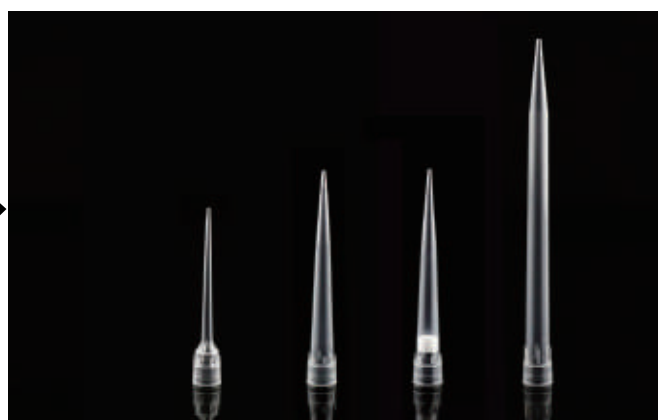
Cat. No.	Description	/Pack	/Case
345069	50 µL Automation <b>Filter</b> Tips for Brand H, Conductive	96	4800
345169	300 µL Automation <b>Filter</b> Tips for Brand H, Conductive	96	4800
345269	1000 µL Automation <b>Filter</b> Tips for Brand H, Conductive	96	4800



Brand T Robotic Tip



Brand H Robotic Tip



NEST automatic transparent tip is made of polymer material polypropylene (PP), whose surface owns high hydrophobicity as treated with a special technique making for certain purposes, they are bound to offer you high efficiency and repeatability.

## Advantages

- Medical grade high-tenacity polypropylene (PP) material is imported and selected strictly in line with the industry requirements to ensure the stability of materials between batches.
- The production is manufactured automatically in Class 100, 000 clean workshop, to ensure no DNA, RNA, protease and heat source. Tips of each box share the same cavity number to ensure the product traceability and the conductivity uniformity and to improve the accuracy of experimental results, greatly reducing the difference among individual products.
- The smooth inner surfaces of tips supported by the unique processing technology greatly reduces the amount of residual liquid.
- The structure mapping is conducted as per the original adapter and the proven injection-molding ensures that the products have good air tightness and adaptability, improving the mechanical precision of the products during work.
- Effective quality inspections are conducted under strict quality management including tests for DNA, RNA, proteases, and pyrogens, satisfying clients' needs.
- Air tightness detection: the precision detector is used to check the air tightness between the tips and the adapter, to ensure that each batch of products have good air tightness.
- The test equipment is used online to control the size and concentricity of products in production line, saving time and improving product quality.
- The porous tissue of filter tip ensures optimum performance. And the super hydrophobicity of the tip forms a strong barrier against aerosols thus eliminates the risk of cross-contamination among samples.

## Adaptation model

- Brand T automation conductive tips may be used with the TECAN Freedom EVOlyzers and fully automatic sampling systems.
- Brand H automation conductive tips are used in conjunction with Hamilton series workstations.
- Brand B robotic tips are used in Beckman FX/NX, Biomek i5/ i7 and Biomek 3000.

# Robotic Tip

## Compatible with Brand T Systems



### Blister Packed, 96 Tips\*2 Blisters/Pk, Sterile

Cat.No.	Description	/Pack	/Case
332003	50 µL Robotic Tips for Brand T, Clear, Blister Packed	96*2	5760
332013	50 µL Robotic <b>Filter</b> Tips for Brand T, Clear, Blister Packed	96*2	5760
332103	200 µL Robotic Tips for Brand T, Clear, Blister Packed	96*2	5760
332113	200 µL Robotic <b>Filter</b> Tips for Brand T, Clear, Blister Packed	96*2	5760
332203	1000 µL Robotic Tips for Brand T, Clear, Blister Packed	96*2	3840
332213	1000 µL Robotic <b>Filter</b> Tips for Brand T, Clear, Blister Packed	96*2	3840



### Boxed, 96 Tips/Pk, Sterile

Cat.No.	Description	/Pack	/Case
332007	50 µL Robotic Tips for Brand T, Clear, Boxed	96	4800
332017	50 µL Robotic <b>Filter</b> Tips for Brand T, Clear, Boxed	96	4800
332107	200 µL Robotic Tips for Brand T, Clear, Boxed	96	4800
332117	200 µL Robotic <b>Filter</b> Tips for Brand T, Clear, Boxed	96	4800
332207	1000 µL Robotic Tips for Brand T, Clear, Boxed	96	4800
332217	1000 µL Robotic <b>Filter</b> Tips for Brand T, Clear, Boxed	96	4800

## Compatible with Brand H Systems



### With Barcode, Blister Packed, 96 Tips/Pk, Sterile

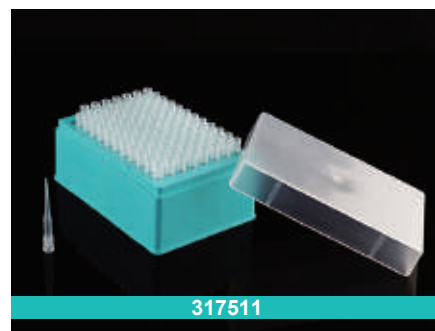
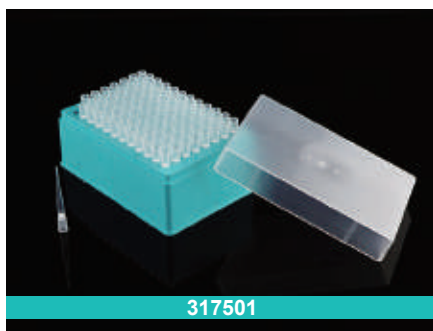
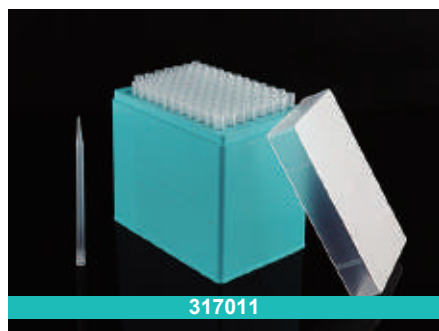
Cat.No.	Description	/Pack	/Case
345503	50 µL Robotic Tips for Brand H, Clear, with barcode	96	2304
345513	50 µL Robotic <b>Filter</b> Tips for Brand H, Clear, with barcode	96	2304
345603	300 µL Robotic Tips for Brand H, Clear, with barcode	96	2304
345613	300 µL Robotic <b>Filter</b> Tips for Brand H, Clear, with barcode	96	2304
345703	1000 µL Robotic Tips for Brand H, Clear, with barcode	96	2304
345713	1000 µL Robotic <b>Filter</b> Tips for Brand H, Clear, with barcode	96	2304



### Boxed, 96 Tips/Pk, Sterile

Cat.No.	Description	/Pack	/Case
345509	50 µL Robotic Tips for Brand H, Clear, Boxed	96	4800
345519	50 µL Robotic <b>Filter</b> Tips for Brand H, Clear, Boxed	96	4800
345609	200 µL Robotic Tips for Brand H, Clear, Boxed	96	4800
345619	200 µL Robotic <b>Filter</b> Tips for Brand H, Clear, Boxed	96	4800
345709	1000 µL Robotic Tips for Brand H, Clear, Boxed	96	4800
345719	1000 µL Robotic <b>Filter</b> Tips for Brand H, Clear, Boxed	96	4800

## Compatible with Brand B Systems

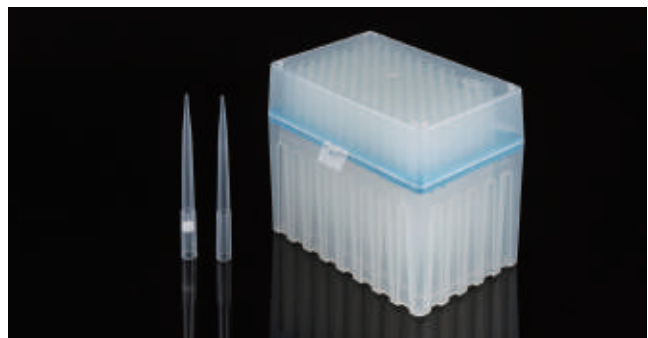
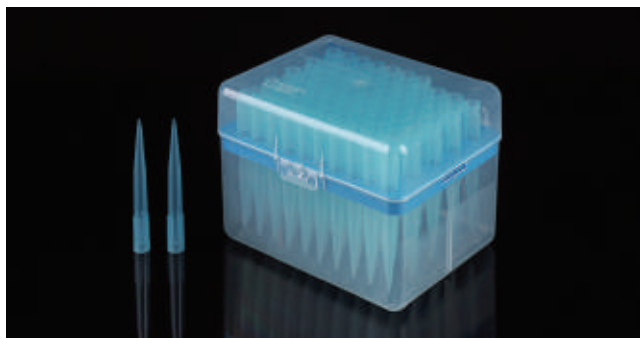
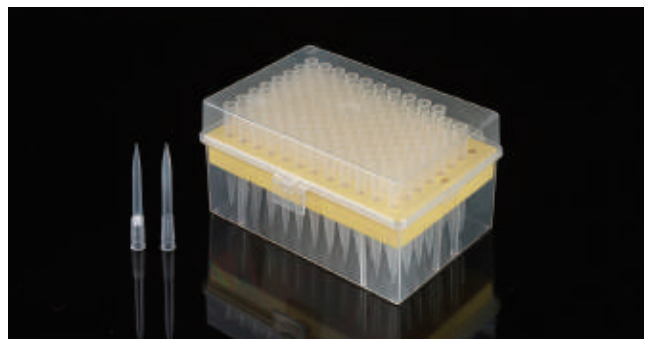
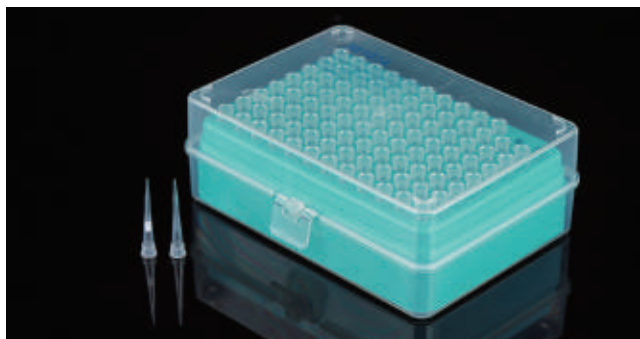
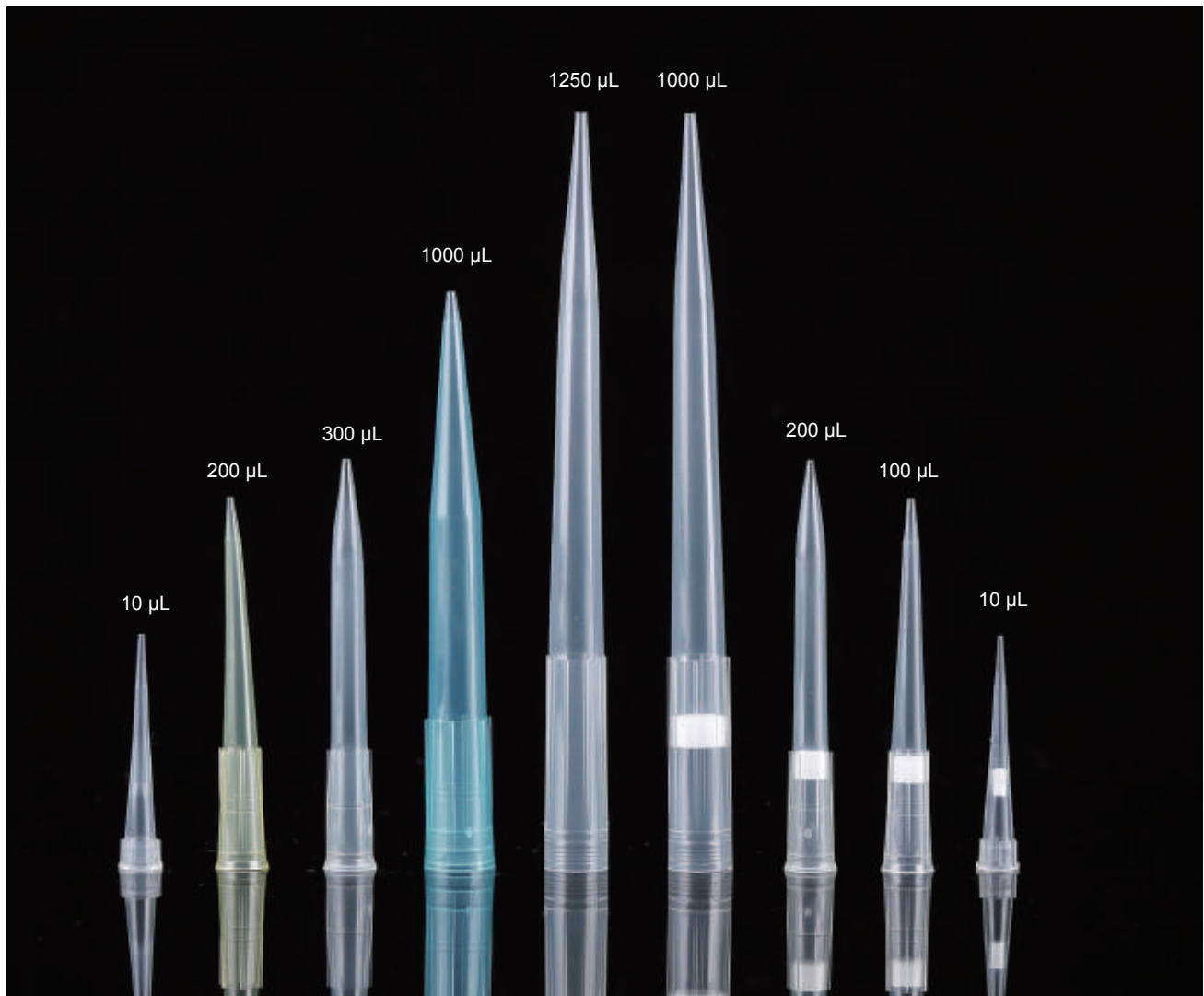


### Boxed, 96 Tips/Pk, Sterile

Cat.No.	Description	/Pack	/Case
317511	250 µL Robotic Tips	96	4800
317011	1070 µL Robotic Tips	96	4800
317501	190 µL Robotic <b>Filter</b> Tips	96	4800
317101	1000 µL Robotic <b>Filter</b> Tips	96	4800



# Universal Pipette Tip



# Universal Pipette Tip

NEST Pipette Tips are ultra-clear and fit universally the most pipettes. Made from 100% polypropylene, low-retention plastic, these tips ensure accurate sample results during liquid handling. The Nest Pipette Tip package production line is RNase/Dnase, pyrogen free. The pipettes of the following specifications :10 µL, 100 µL, 200 µL, 300 µL, 1000 µL and 1250 µL are available.

## Features

- Fine point design.
- Non-Pyrogenic, DNase/RNase free.
- High degree of adaptation.
- Ultra-Clear polypropylene.
- Withstands organic solvents.
- Less residue.

## Pipette Tip Bulk, Non-Sterile

Cat.No.	Product Description	/Pack	/Case
314001	10 µL Universal Pipette Tips, Extra-long, Clear	1000	20000
301006	10 µL Universal Pipette Tips, Clear	1000	20000
302106	200 µL Universal Pipette Tips, Yellow	1000	20000
305006	300 µL Universal Pipette Tips, Clear	1000	10000
303206	1000 µL Universal Pipette Tips, Blue	1000	5000
304006	1250 µL Universal Pipette Tips, Clear	500	5000
311001	10 µL Filter universal Pipette Tips, Clear	1000	10000
316001	100 µL Filter Universal Pipette Tips , Clear	1000	10000
312001	200 µL Filter universal Pipette Tips, Clear	1000	10000
313006	1000 µL Filter universal Pipette Tips, Clear	500	5000
313001	1000 µL Filter universal Pipette Tips, Extra-long, Clear	500	5000

## Pipette Tip Racked, Sterile

Cat.No.	Product Description	/Pack	/Box	/Case
301016	10 µL Universal Pipette Tips, Clear,	96	960	4800
302116	200 µL Universal Pipette Tips, Yellow	96	960	4800
305016	300 µL Universal Pipette Tips, Clear	96	960	4800
303216	1000 µL Universal Pipette Tips, Blue	100	1000	5000
304016	1250 µL Universal Pipette Tips, Clear	96	960	4800
311012	10 µL Filter universal Pipette Tips, Clear	96	960	4800
314016	10 µL Filter universal Pipette Tips, Extra Long, Clear	96	960	4800
310012	20 µL Filter universal Pipette Tips, Clear	96	960	4800
316012	100 µL Filter Universal Pipette Tips, Clear	96	960	4800
312012	200 µL Filter universal Pipette Tips, Clear	96	960	4800
313016	1000 µL Filter universal Pipette Tips, Clear	96	960	4800
313012	1000 µL Filter universal Pipette Tips, Extra Long, Clear	96	960	4800

# Tip Box



## Tip Box, Box without tips

Cat.No.	Description	/Pack	/Case
351001	10 µL Filter Tip Box	1	50
351101	200 µL Filter Tip Box	1	50
351201	1000 µL Filter Tip Box	1	50
351301	1250 µL Filter Tip Box	1	50



# Vacuum Filtration System

NEST Disposable Vacuum Filtration System is useful for large volume sample separation and sterilization of tissue culture media and other biological buffers. The units include PES or PVDF membrane filters with graduated filter tops made with polystyrene, and acrylonitrile-butadiene-styrene necks with polystyrene receiving bottles. A separated sterile polyethylene cap is included. Filtration system is manufactured from raw material of high transparency polystyrene (PS) in three different volumes: 250 mL / 500 mL / 1000 mL. They are available in three styles: complete filter/storage bottle systems, bottle top filters, and receiving bottles only.

## Features

- High flow rates and flux.
- Low protein binding and low chemical extractability.
- Pore size: 0.22  $\mu\text{m}$ .
- Non-Pyrogenic, DNase/Rnase free.
- Sterilized by E-beam, SAL=10<sup>-6</sup>.
- Individually packaged in sterile bag.
- No endotoxin, no pyrogen.
- For laboratory use only.
- If the package is damaged, please do not use.





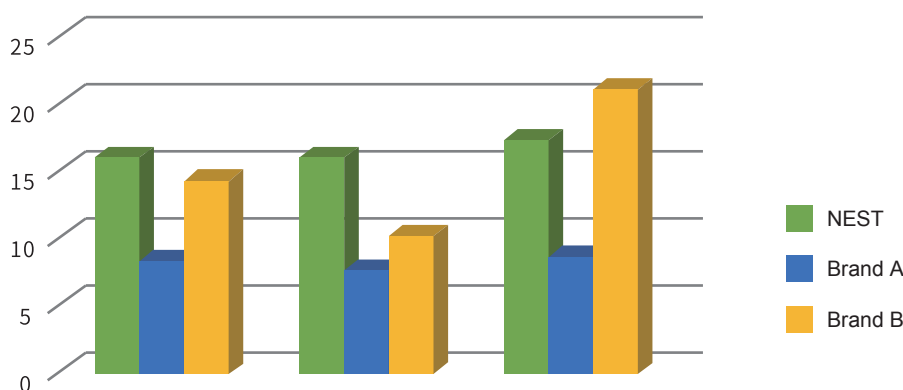
# Vacuum Filtration System

Membrane Type	Hydrophilicity	Features	Application Directions	Cautions
PES	Hydrophilic	Low protein adsorption, high flow rate, wide PH range, high chemical compatibility, good heat resistance.	For general culture media and aqueous solutions, polar or middle-polar solvents, neutral aqueous solutions.	Not applicable for chloroform, esters, amides and strong acids or strong bases.
PVDF	Hydrophilic	Wide practicability, good oxidation resistance and heat resistance.	May be used for aqueous solutions and most solvents, including strong non-polar solvents. Ideal for preparations of HPLC and GC.	Not applicable for strong acids and bases.
MCE	Hydrophilic	Strong chemical compatibility and low protein adsorption, the optimum pH range is 3-6.	Used for particle analysis of general culture media and aqueous solutions. HPLC sample preparation.	The set should not be used for filtration of ethanol and alkaline solutions. The working temperature should not be over 40
CA	Hydrophilic	High flow rate and heat stability as well as very low adsorption, stable within the range of pH 4-8.	It may resist most alcohols and oils, and is suitable for sterling filtration of aqueous solutions, buffers, serum and culture media, as well as filtration of the moving phase of HPLCD.	The CA membrane may accommodate a smaller volume of buffer since it has low hydrophilia.

## Warning

- Do not use plastic bottles, glass bottles, flasks or containers that are not designed for filtration and cannot withstand negative pressure to connect to the upper cup .
- Not suitable for culture flasks larger than 2L.
- Working temperature: 4-37°C.
- Working pressure: 0.03-0.06Mpa, if there is foam, please reduce pressure appropriately.
- Tighten the upper cup and bottle mouth by hand, but do not over tighten.
- Personal protective equipment must be used at all times, and goggles must be worn when using vacuum equipment.
- Work on the aseptic operating table.
- It is not recommended to recycle any hazardous substances, hazardous substances, wastes or biochemically hazardous materials.

## Comparison of the flow rate of different brands of vacuum filters



	DMEM+10%FBs	RPMI1640+10%FBs	TSB
NEST	16	16	17.39
Brand A	8.33	7.69	8.7
Brand B	14.29	10.26	21.1

## Product Parameters

Volume (mL)	Membrane Dia(mm)	Capacity(mL)	Max.Temp (°C)	Neck Dia(mm)	Height (mm)	Material of Neck
250	50	250	45	45	198	ABS
500	90	500	45	45	247	ABS
1000	90	1000	45	45	280	ABS

# Vacuum Filtration System

## Vacuum Filtration Systems

CA Membrane Cat.No.	PES Membrane Cat.No.	PVDF Membrane Cat.No.	MCE Membrane Cat.No.	Volume (mL)	Pore Density ( $\mu\text{m}$ )	/Pack	/Case
347302	347002	347102	347202	50	0.10	1	12
347301	347001	347101	347201	50	0.22	1	12
347303	347003	347103	347203	50	0.45	1	12
346302	346002	346102	346202	150	0.10	1	12
346301	346001	346101	346201	150	0.22	1	12
346303	346003	346103	346203	150	0.45	1	12
342302	342002	342102	342202	250	0.10	1	12
342301	342001	342101	342201	250	0.22	1	12
342303	342003	342103	342203	250	0.45	1	12
343302	343002	343102	343202	500	0.10	1	12
343301	343001	343101	343201	500	0.22	1	12
343303	343003	343103	343203	500	0.45	1	12
344302	344002	344102	344202	1000	0.10	1	12
344301	344001	344101	344201	1000	0.22	1	12
344303	344003	344103	344203	1000	0.45	1	12

## Bottle Top Vacuum Filter

CA Membrane Cat.No.	PES Membrane Cat.No.	PVDF Membrane Cat.No.	MCE Membrane Cat.No.	Volume (mL)	Pore Density ( $\mu\text{m}$ )	/Pack	/Case
347312	347012	347112	347212	50	0.10	1	24
347311	347011	347111	347211	50	0.22	1	24
347313	347013	347113	347213	50	0.45	1	24
346312	346012	346112	346212	150	0.10	1	24
346311	346011	346111	346211	150	0.22	1	24
346313	346013	346113	346213	150	0.45	1	24
342312	342012	342112	342212	250	0.10	1	24
342311	342011	342111	342211	250	0.22	1	24
342313	342013	342113	342213	250	0.45	1	24
343312	343012	343112	343212	500	0.10	1	24
343311	343011	343111	343211	500	0.22	1	24
343313	343013	343113	343213	500	0.45	1	24
344312	344012	344112	344212	1000	0.10	1	24
344311	344011	344111	344211	1000	0.22	1	24
344313	344013	344113	344213	1000	0.45	1	24

## Polystyrene Storage Bottles

Cat.No.	Description	/Pack	/Case
346021	150 ml Polystyrene Storage Bottles, Neck Size 45 mm, Sterile	1	24
342021	250 mL Polystyrene Storage Bottles, Neck Size 45 mm, Sterile	1	24
343021	500 mL Polystyrene Storage Bottles, Neck Size 45 mm, Sterile	1	24
344021	1000 mL Polystyrene Storage Bottles, Neck Size 45 mm, Sterile	1	12

# Syringe Filter



Syringe filters are used in fields like life sciences, pharmaceuticals, environment, biotechnology, food and beverages, agricultural testing laboratories, etc. In particular, they are widely used in life science laboratories to sterilize samples of small volume, such as proteins, additives, buffers, reagents and drugs. The one-piece injection molded package of syringe filters is made of medical polypropylene, which is resistant to high pressure and product leakage.

## Features

- Non-Pyrogenic, DNase/Rnase free.
- Sterilized by E-beam, SAL=10<sup>-6</sup>.
- Individually packaged in sterile bag.

Cat. No.	Membrane	Size (mm)	Pore Density (μm)	/Pack	/Case
331011	PES	30	0.22	100	1,000
331001	PVDF	30	0.22	100	1,000

## Precautions

- When handling chromatography samples, avoid introducing other impurities during the filtration process.
- Do not use a syringe with a volume less than 10 cc, which may cause excessive pressure in the injection tube thus resulting in membrane damage or personal injury.
- Single use only.
- Discard the initial few filtrates, of which the volume is about the volume of the filter.

# Microcentrifuge Tube



NEST centrifuge tubes could be commonly used to collect cells and separate biomacromolecules by centrifugation in biochemistry and other biological fields. They can also be used to store photosensitive samples and special chemiluminescence reagents.

## Features

- USP VI grade polypropylene material, free from heavy metal.
- RCF: 30,000 xg.
- Special safe-lock cap design provides secure lid sealing.
- Clear graduations and frosted marking area.
- Easy to open and close.
- Autoclavable.
- RNase free, endotoxin level less than 0.1EU.
- Both sterile and non-sterile tubes are available.

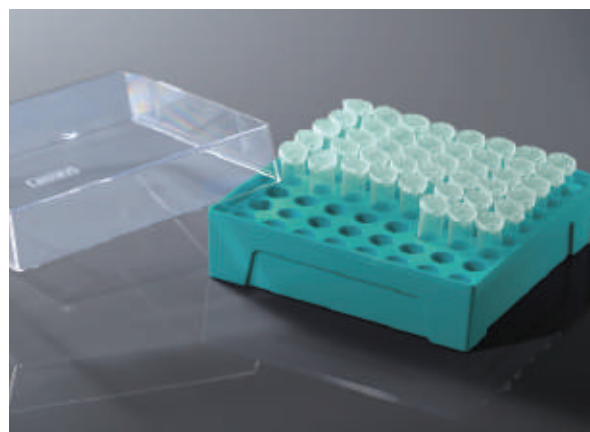
Cat.No.	Volume (mL)	Color	Bottom	Sterile	/Pack	/Case
605001	0.6	Clear	Conical	Non-sterile	1,000	10,000
615001	1.5	Clear	Conical	Non-sterile	500	5,000
620011	2	Clear	Round	Non-sterile	500	5,000
603011	5.0	Clear	Round	Non-sterile	200	2,000
605601	0.6	Clear	Conical	Sterile	50	7,500
615601	1.5	Clear	Conical	Sterile	50	4,000
620611	2	Clear	Round	Sterile	50	4,000
603111	5.0	Clear	Round	Sterile	200	2,000
615401	1.5	Amber	Conical	Sterile	50	4,000
605401	0.6	Amber	Conical	Sterile	50	7,500
605501	0.6	Amber	Conical	Non-sterile	50	7,500

## Micro Tube Box

### Features

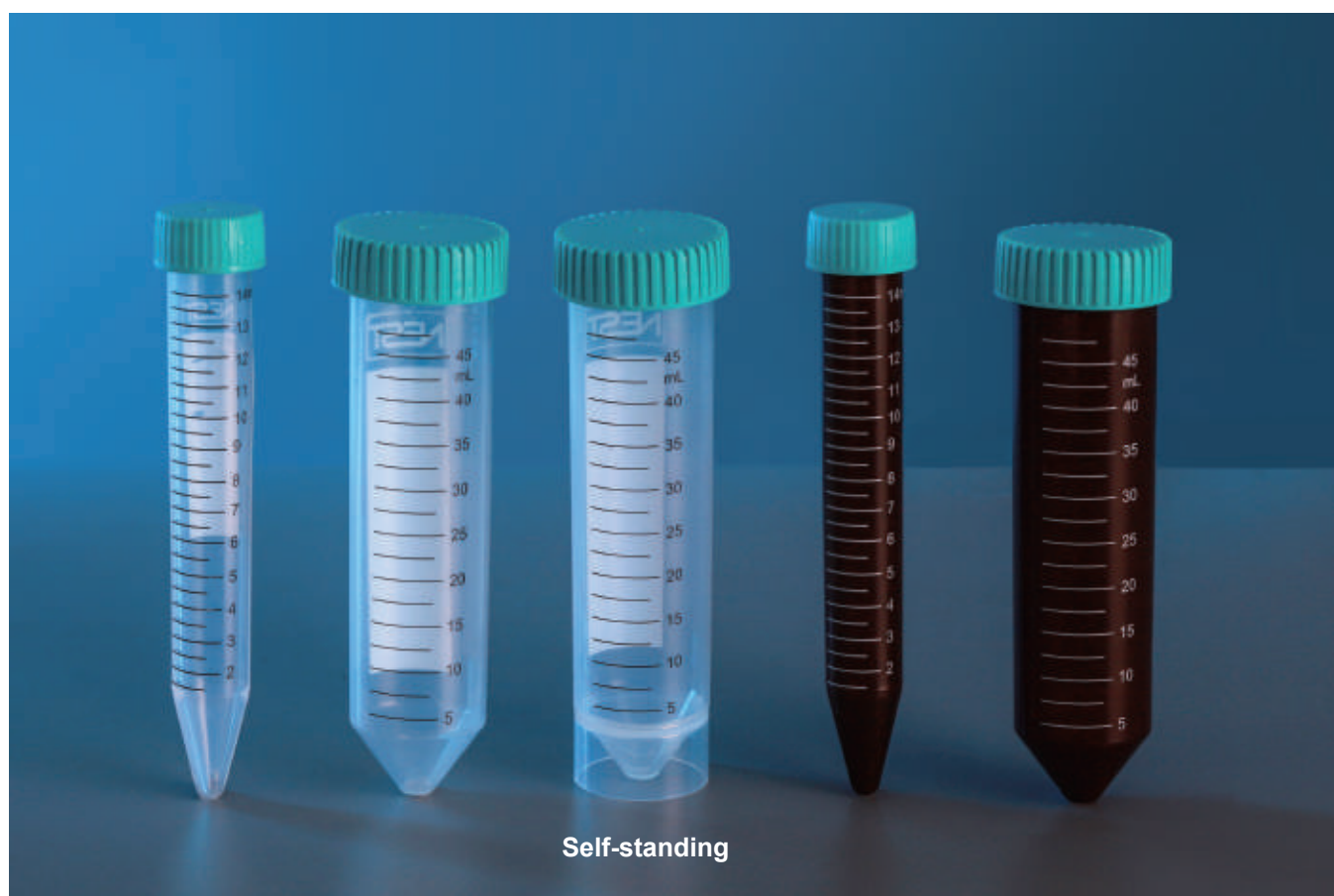
- Clear polycarbonate cover for easy identification.
- Withstand temperature ranging from -80 °C to 121 °C.
- Solid polypropylene base and polycarbonate cover.
- Non-sterile.

Cat.No.	Application	Spec (well)	/Pack	/Case
613001	0.6 mL	10*10	5	40
613111	1.5 / 2 mL	8*8	5	40





# 15 mL & 50 mL Centrifuge Tube



NEST centrifuge tubes could be commonly used to collect cells and separate biomacromolecules by centrifugation in biochemistry and other biological fields. They can also be used to store photosensitive samples and special chemiluminescence reagent.

## Features

- Printed Graduations (with marking area).
- Polypropylene tube and high-density polyethylene cap.
- High centrifugal strength up to 12,000xg.
- Flat markable cap with leakproof seal.
- One-hand operation design for the caps is easy to handle.
- Sterilized by E-beam, SAL=10<sup>-6</sup>.
- Non-Pyrogenic, DNase/Rnase free.

## Premium Level

- Up to the standards of biological analysis.
- High strength non-toxic materials.
- Raw material comply with USP VI complies.

Cat.No.	Volume (mL)	Color	Max.RCF(xg)	Type	Packaging	/Pack	/Case
601001	15	Clear	12,000	Premium	PS Rack	50	500
601002	15	Clear	12,000	Premium	Bulk	50	500
602001	50	Clear	12,000	Premium	PS Rack	25	500
602002	50	Clear	12,000	Premium	Bulk	25	500
601201	15	Amber	12,000	Premium	PS Rack	50	500
602201	50	Amber	12,000	Premium	PS Rack	25	500



# 15 mL & 50 mL Centrifuge Tube



PS Rack



Bulk

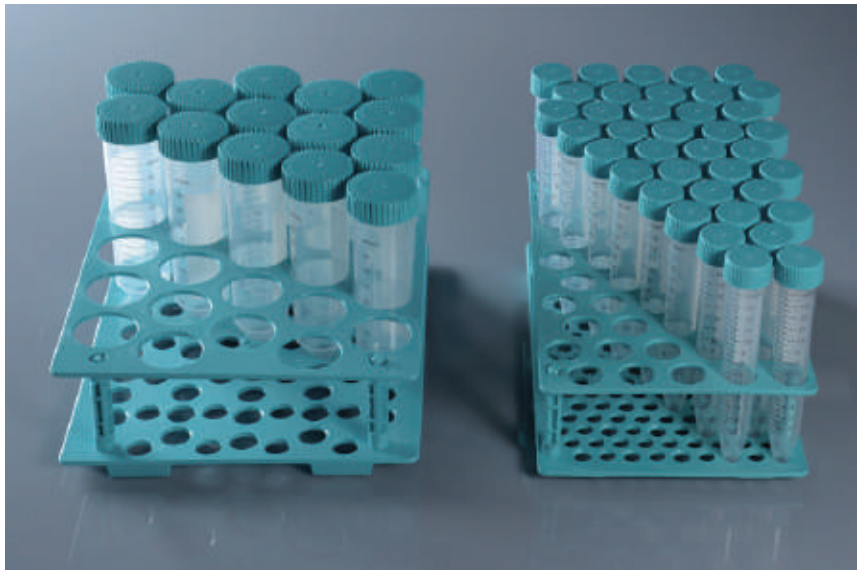
## Standard Level

- Made from virgin polypropylene to meet the general requirements of the laboratory.
- Skirted and self-standing.

Cat.No.	Volume(mL)	Max.RCF(xg)	Packaging	Type	/Pack	/Case
601051	15	12,000	Rack	Standard	50	500
601052	15	12,000	Bulk	Standard	50	500
602051	50	12,000	Rack	Standard	25	500
602052	50	12,000	Bulk	Standard	25	500
602072	50 (Self-Standing)	5,000	Bulk	Standard	25	500



# Centrifuge Tube Rack

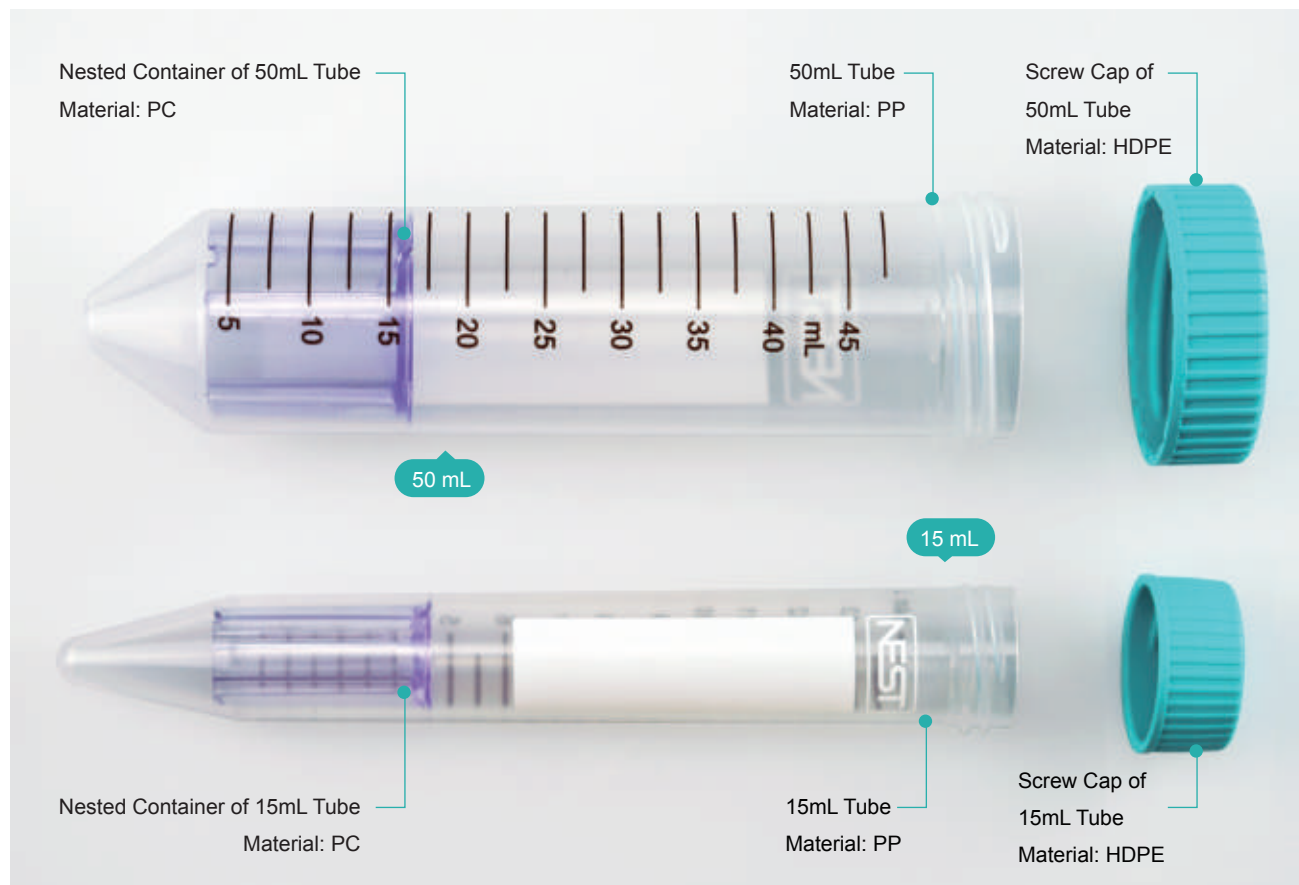


## Features

- Made of virgin polypropylene.
- Reusable and economic.
- Non-sterilized.

Cat.No.	Application	/Case
610001	For 15 mL Tubes	50
610101	For 50 mL Tubes	50

# Peripheral Blood Lymphocyte Separation Tube



This product separates and purifies cells with separation solution by means of density gradient centrifugation according to the difference in cell density. With the density gradients generated inside, the target cells can be retained on top of the nested container in the tube, which is designed specifically to separate the target sample from the density gradient medium to the utmost extent; while erythrocytes and granulocytes will sink at the bottom after centrifugation, and the PBMC (Peripheral Blood Mononuclear Cell, including lymphocytes and monocytes, etc.) will float on the surface. Only the simple operation of decanting is involved in the final stage, and no other professionally technical operations required.

## Features

- Rapid separation and purification for PBMC within only 15 min.
- Simple operation procedures: no need to slowly and laboriously add samples into the solution; when collecting samples, simply decant the centrifuge tube. No other professionally technical operations are required.
- Good reproducibility for reduced errors and less operation variation among users.
- E-beam sterilized with SAL=10<sup>6</sup>.
- No heat source; no nucleases.

## Usages and Application Directions

Peripheral Blood Lymphocyte Separation Tube is mainly applied to separate Peripheral Blood Mononuclear Cell (lymphocytes and monocytes) from whole blood or bone marrow through density gradient centrifugation. For research use only.

Cat.No.	Description	Description	Recommended Volume of Sample	Specifications	/Pack	/Case
601852	Peripheral Blood Lymphocyte Separation Tube	Sterilized	4-9 mL	15 mL	50	500
602858	Peripheral Blood Lymphocyte Separation Tube	Sterilized	13-30 mL	50 mL	25	500

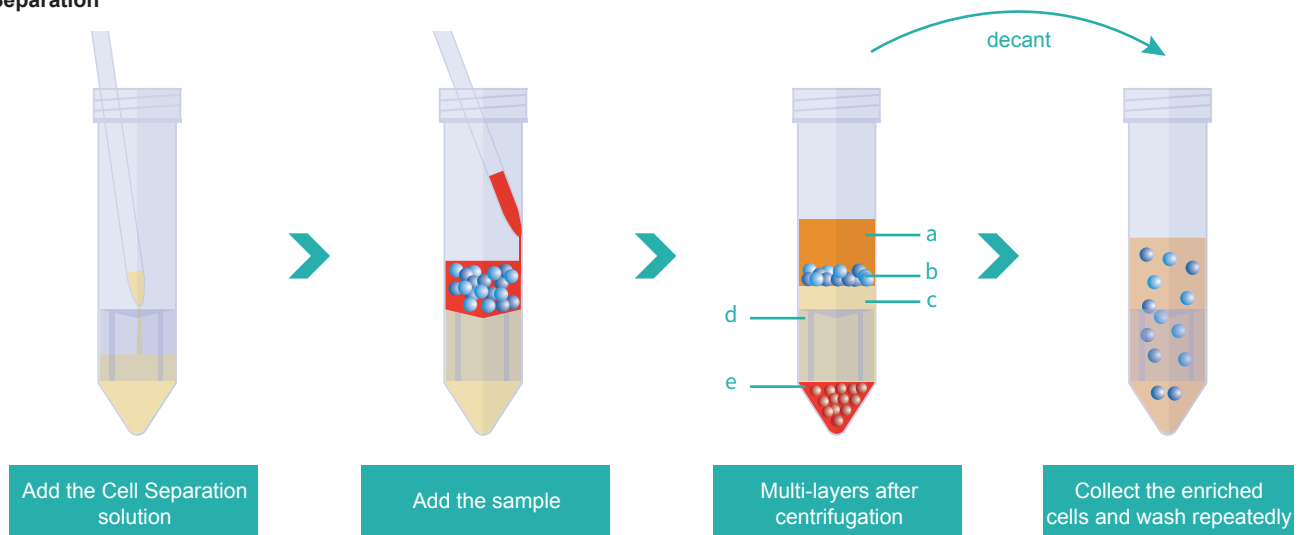
# Peripheral Blood Lymphocyte Separation Tube

## Instructions

### Preliminary Preparation

- Cool off the separation solution away from light to the room temperature (RT) .
- Add the separation solution by a serological pipette through the central hole of the nested container: for a 15 mL tube, add approximately 4 mL separation solution; for a 50 mL tube, add approximately 13 mL separation solution; Please ensure the separation solution on top of the nested container throughout the procedure.
- Add the drawn anticoagulated blood and bone marrow into the separation tube cooled off to the room temperature. Besides, adding saline to dilute the specimen is not requisite but can help improve the separation result.

### Separation



- Slowly pour or pipette the anticoagulated sample (blood or bone marrow, diluted with saline if needed) along the tube wall into the tube slowly: for a 15 mL separation tube, 4-9 mL of the sample is recommended; for a 50 mL separation tube, 13-30 mL of the sample is recommended.
- Centrifuge at room temperature with a centrifugal force of 1200 x g for 10 minutes, then turn off the centrifuge. For samples left for more than 24h, longer centrifugation time is recommended.
- Liquid separation condition after centrifugation (from top to bottom): A. plasma; B. enriched cell fractions (intermediate phase contains lymphocytes/PBMCs cells); C. separation solution; D. nested container; E. precipitation (erythrocytes and granulocytes). Collect or directly discard the plasma layer of 5-10 mm above the enriched cells to prevent the enriched cells from re-contamination by platelets.
- Collect the enriched cells (lymphocytes/PBMCs cells) and pour the supernatant from the separation tube into another clean centrifuge tube, during which the nested container works to prevent the enriched cells from re-contamination by erythrocytes and granulocytes. Don't invert the separation tube for more than 2s.
- Wash the enriched cells (lymphocytes/PBMCs cells) with Phosphate Buffer Solution(PBS) then centrifuge them at 250 xg for 10 min.
- Repeat the washing 2 times as in step 5 and finally re-suspend cells with 5 mL PBS.

## Precautions

- This product should be operated by professionally trained personnel under the guidance of good laboratory practices.
- Do not re-use the separation tube.
- Specific separation effects may vary due to the difference in centrifuges' performance from different brands and the difference in regional temperature and environment. Users may adjust the speed and time of centrifugation to find out the best separation conditions (up to respective laboratory).
- The product is applicable to the sample of human peripheral blood, bone marrow and umbilical cord blood, but not to leukocyte isolation samples, samples with brownish yellow layer of erythrocyte sedimentation nor samples over 48 hours.
- After centrifugation, cells may aggregate on the tube wall above the enriched layer, which is a normal phenomenon influenced by the quality, sample placement time and anticoagulant type of sample, but independent of the use of the separation tube. Cells can be removed by scraping the interior wall with a pipette tip.
- When specimens of any biological origin are involved, operate the blood taking needles, blood collection tubes and related instruments, etc. cautiously in accordance with strict protocols. Do treat specimens as hidden dangerous sources of infectious diseases such as HIV, HBV, HCV, etc, in which case disposable gloves are necessary in order to avoid the risk of infection during operation.



# Pasteur Pipette

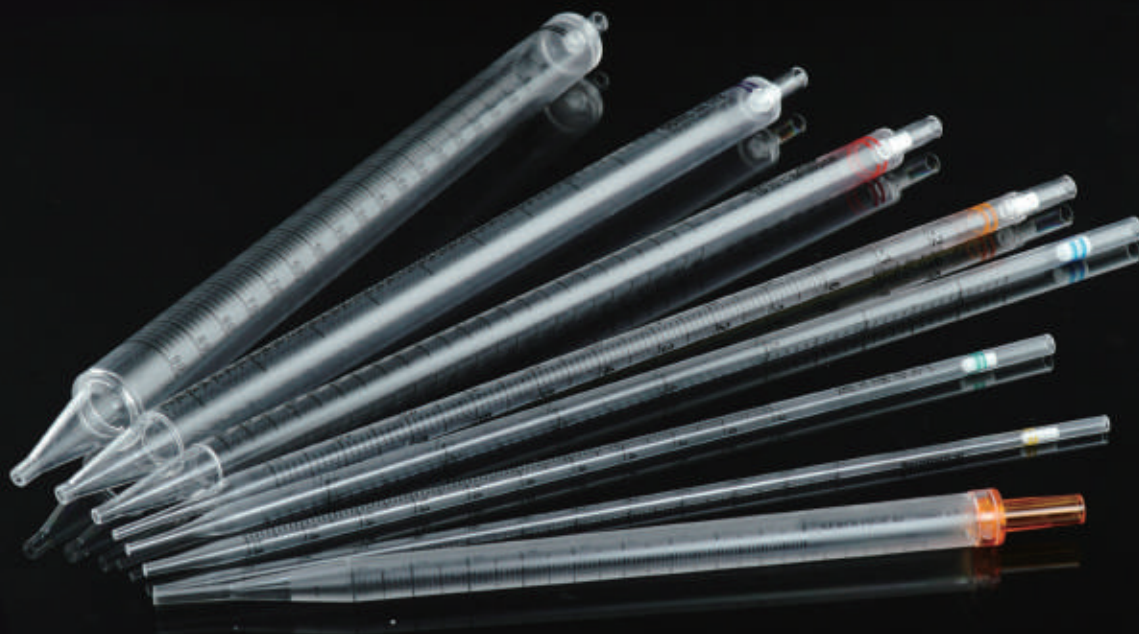


## Features

- Good chemical stability.
- Transparent with clear graduations for easy observation.
- Pipette can be twisted for use with micro vessels and special-shaped containers.
- High precision and good repeatability.
- Individually wrapped, sterilized by EO.
- DNase/RNase, endotoxin and pyrogenic free.

Cat.No.	Volume (mL)	Length (mm)	Pack	Sterile	/Pack	/Case
318012	1	144	Individually Packed	Sterile	500	2,000
318112	2	150	Individually Packed	Sterile	500	2,000
318212	3	162	Individually Packed	Sterile	500	2,000
318314	3(Extra Long)	182	Individually Packed	Sterile	200	2,000
318516	5	200	Individually Packed	Sterile	250	1,000
318417	10	285	Individually Packed	Sterile	125	500
318031	1	144	Bulk	Non-sterile	500	5,000
318131	2	150	Bulk	Non-sterile	500	5,000
318231	3	162	Bulk	Non-sterile	500	5,000

# Serological Pipette



NEST serological pipettes can be used in biological research such as tissue culture and bacterial culture. They are made of highly transparent polystyrene and are individually packaged in paper-plastic bags. Pipettes of different specifications are distinguished by different colors.

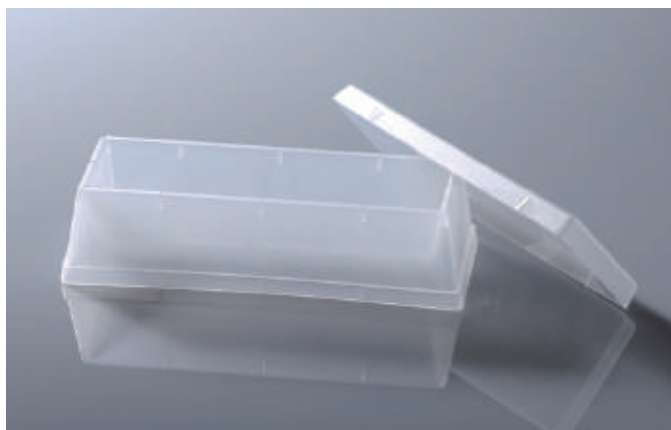
## Features

- Made of high clarity, 100% virgin polystyrene.
- Sterilized by E-beam, SAL=10<sup>-6</sup>.
- Non-Pyrogenic, DNase/Rnase free.
- Edged color-coded band for identification.
- Negative graduations for extra volume.
- Polyolefin fiber filter to reduce contamination.

Cat.No.	Volume (mL)	Description	/Pack	/Box	/Case
324003 (NEW)	1	Individually Plastic-plastic Wrapped	100	500	3,000
325003 (NEW)	2	Individually Plastic-plastic Wrapped	100	400	2,400
326003 (NEW)	5	Individually Plastic-plastic Wrapped	100	200	800
327003 (NEW)	10	Individually Plastic-plastic Wrapped	100	200	800
327303 (NEW)	10 (Ink-free laser printed)	Individually Plastic-plastic Wrapped	50	/	500
328003 (NEW)	25	Individually Plastic-plastic Wrapped	50	200	800
329003 (NEW)	50	Individually Plastic-plastic Wrapped	50	100	600
324001	1	Individually Paper-plastic Wrapped	100	500	3,000
325001	2	Individually Paper-plastic Wrapped	100	400	2,400
326001	5	Individually Paper-plastic Wrapped	100	200	800
327001	10	Individually Paper-plastic Wrapped	100	200	800
328001	25	Individually Paper-plastic Wrapped	50	200	800
329001	50	Individually Paper-plastic Wrapped	50	100	600
329501 (NEW)	100	Individually Paper-plastic Wrapped	25	50	300

## Reagent Reservoir

Cat.No.	Volume (mL)	/Pack	/Case
360002	60	5	25



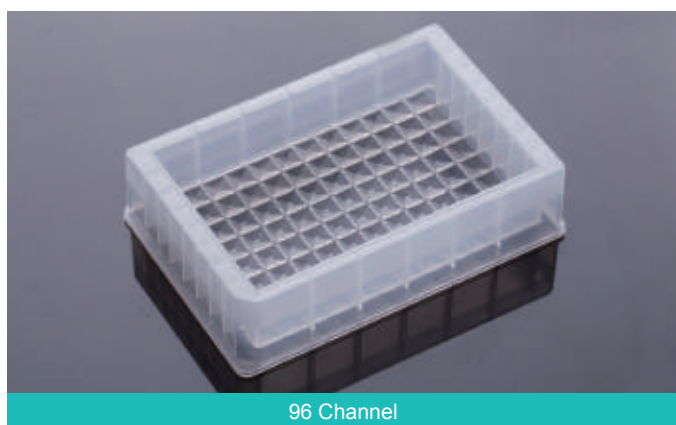
## Reservoir



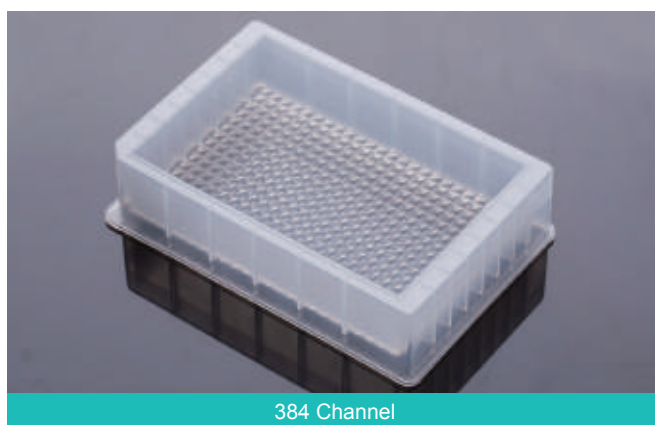
8 Channel



12 Channel



96 Channel



384 Channel

Non-sterile Cat.No.	Sterile Cat.No.	Description	/Pack	/Case
360101	360111	Reservoir, Multi Well, 8 Channel Troughs, High Profile (22mL, No Cap)	5	50
360102	360112	Reservoir, Multi Well, 12 Channel Troughs, High Profile (15mL, No Cap)	5	50
360103	360113	Reservoir, Single Well, 96 Channel Troughs, High Profile (195mL, No Cap)	5	50
360104	360114	Reservoir, Single Well, 384 Channel Troughs, High Profile (195mL, No Cap)	5	50

Tips: Customized sterilized product.

# Round Storage Bottle

Round Storage Bottle is sterile and made from enzyme-free plastic in line with product packaging and storage requirements in molecular biology and cell biology, laboratory medicine, genomics and proteomics, etc. Improvement in the quality of product packaging helps to improve the company image and brand value, make our products' packaging comply with international standards and enter the international market.

## Features

- The raw materials, premium polypropylene (PP)/polyethylene (HDPE), are excellent in physical and chemical index and resistant to pressure, impact and acid-base. PP materials can undergo autoclave sterilization at 121 °C ; HDPE can be stored at -80 °C .
- A full range of choices to meet different packaging and storage requirements.
- The properties of wash-free and ready to use mean no need for tedious pre-cleaning processing work. The internal packaging is thickened to ensure transportation and storage safety.
- The professional leak-proof design of bottle mouth guarantees excellent seal ability and exempts the need for inner cover or inner gasket for protection.
- 100% leaking-proof guarantee ensures safety even during air transportation; wide-mouthed design makes it easy to access liquid inside.
- No biotoxicity, pyrogen-free, DNase/RNase-free, manufactured in Class 100,000 clean workshop. The plastic bottles are sterilized using by GAMMA-ray.
- Introduction of imported digital-controlled production equipment with high precision. The products are fine in details and comfortable to hold, with high uniformity among batches. The walls have high gloss but no color difference.
- High-class molding technologies and surface processing technologies produce smooth interior and exterior surfaces of the plastic bottles without wicking effect of reagents during the process, subsequently significantly reducing sample wastage. With paralleled quality, our products can perfectly replace the imported competitors.

## Polypropylene (PP)

Cat.No.	Volume (mL)	Material	/Pack	/Case
335201	8	PP	20	400
336201	15	PP	20	400
337201	30	PP	10	200
338201	60	PP	10	200
339201	125	PP	10	100
340201	250	PP	10	100
341201	500	PP	5	50



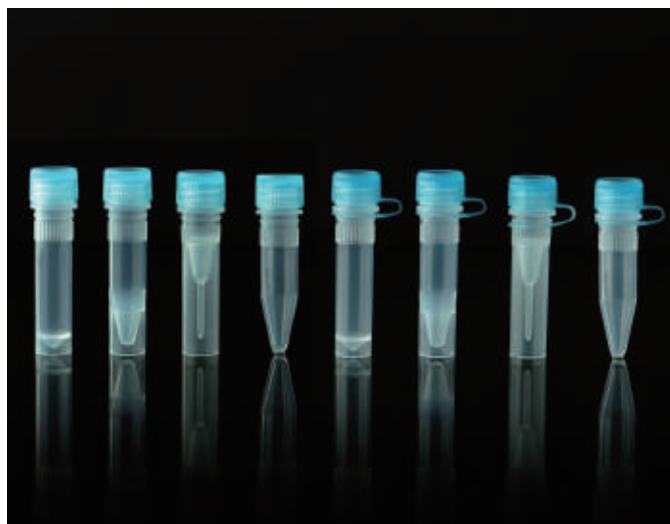
## Polyethylene (HDPE)

Cat.No.	Volume (mL)	Material	/Pack	/Case
335101	8	HDPE	20	400
336101	15	HDPE	20	400
337101	30	HDPE	10	200
338101	60	HDPE	10	200
339101	125	HDPE	10	100
340101	250	HDPE	10	100
341101	500	HDPE	5	50





# Sample Vial



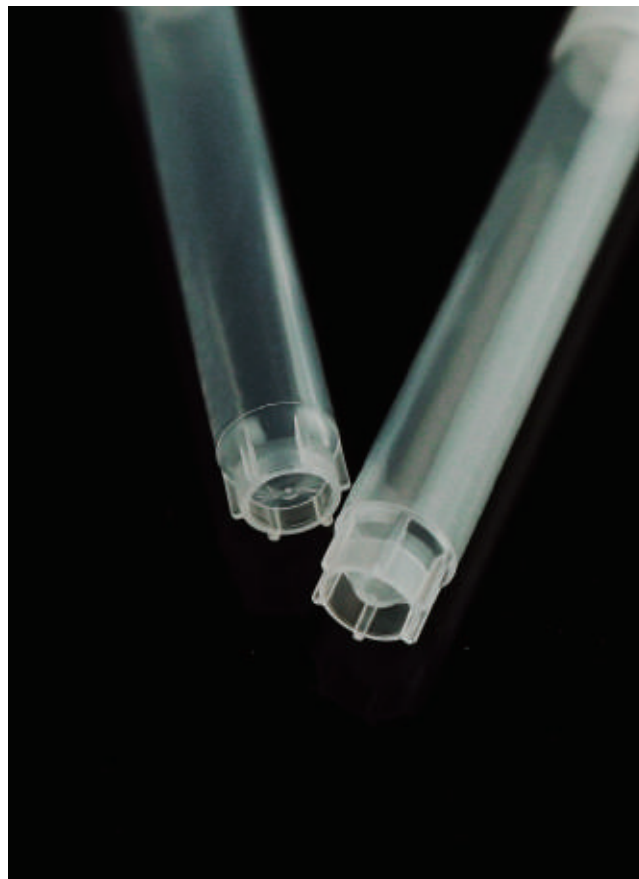
## Application

- Caps have 6 color Caps (blue, red, yellow, purple and natural) personalize the identification of different reagents in a fast and convenient way.
- Cap color is encoded in the product code.
- Products are made of transparent polypropylene (PP) which meets USP Class VI standards and is free of heavy metal ions. Products can be used in proteomics, drug development, genomics and other fields.
- Special knurling design on the vial body enables the vial to be stuck in the special base and to be tightened with a single hand.
- Silicone O-ring inside the screw caps ensures secure sealing. ADR & IATA compliant, no liquid leakage in negative pressure test under a pressure of -0.95 bar.
- Withstands a maximum centrifugal force up to 20,000 xg.

Cat.No.	Description	/Pack	/Case
633901	0.5 mL Self Standing Sample Vials, without Cap	500	2,000
634901	1.5 mL Self Standing Sample Vials, without Cap	500	2,000
635901	2.0 mL Self Standing Sample Vials, without Cap	500	2,000
634911	1.5 mL Conical Sample Vials, without Cap	500	2,000

Cat.No.	Color	Description	/Pack	/Case
633951B	Blue	External Thread Cap, with Sealing Ring	500	2,000
633951R	Red	External Thread Cap, with Sealing Ring	500	2,000
633951Y	Yellow	External Thread Cap, with Sealing Ring	500	2,000
633951P	Purple	External Thread Cap, with Sealing Ring	500	2,000
633951N	Natural	External Thread Cap, with Sealing Ring	500	2,000
633951G	Green	External Thread Cap, with Sealing Ring	500	2,000
633961B	Blue	External Thread Cap, Hinged Cap with Sealing Ring	500	2,000
633961R	Red	External Thread Cap, Hinged Cap with Sealing Ring	500	2,000
633961Y	Yellow	External Thread Cap, Hinged Cap with Sealing Ring	500	2,000
633961P	Purple	External Thread Cap, Hinged Cap with Sealing Ring	500	2,000
633961N	Natural	External Thread Cap, Hinged Cap with Sealing Ring	500	2,000
633961G	Green	External Thread Cap, Hinged Cap with Sealing Ring	500	2,000

# Transport Tube



## Application

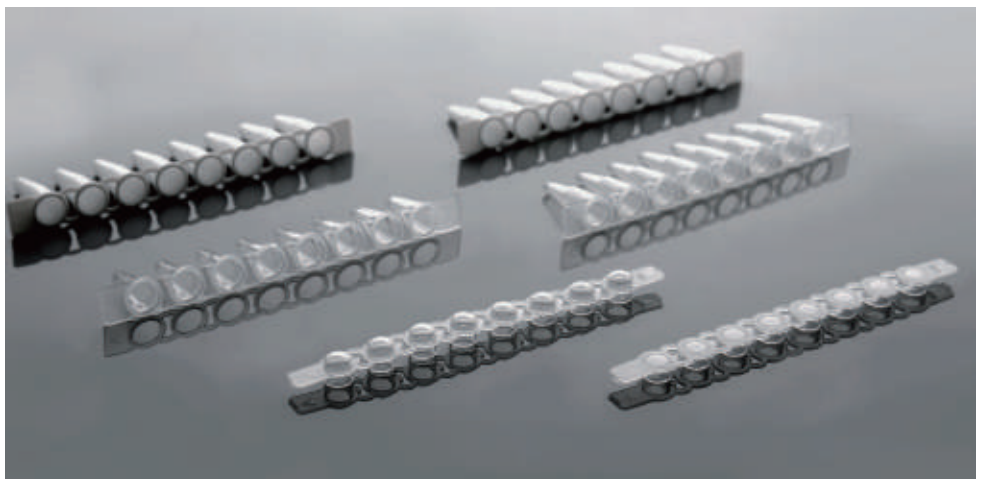
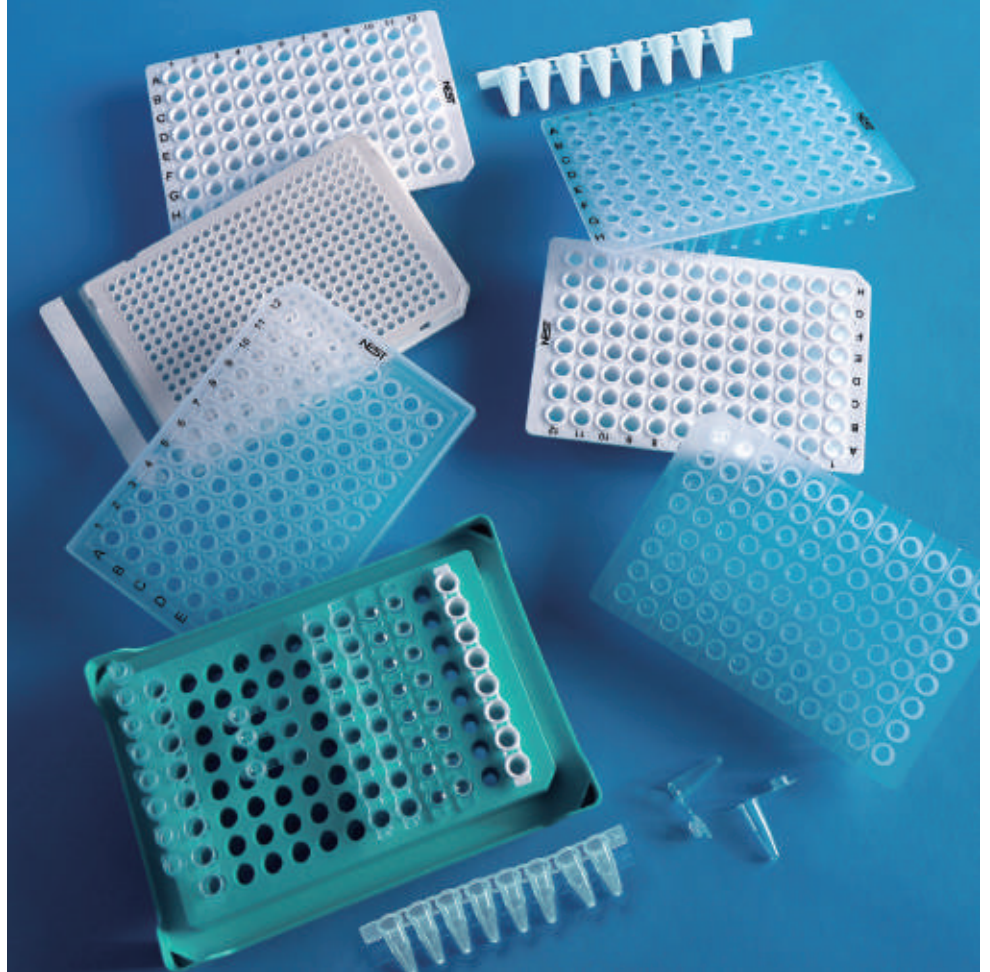
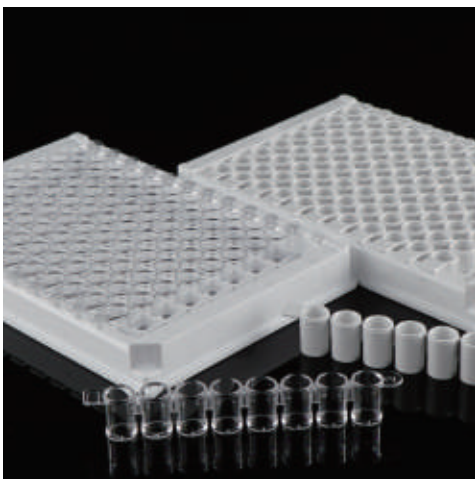
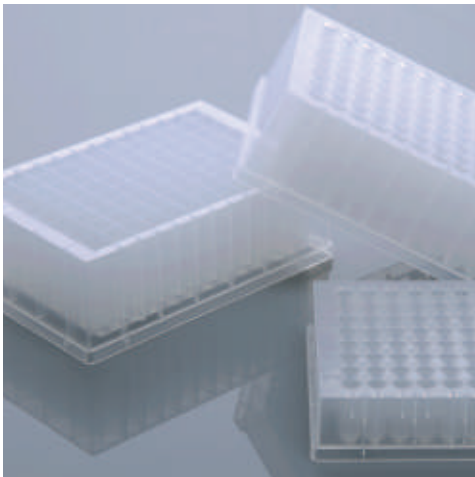
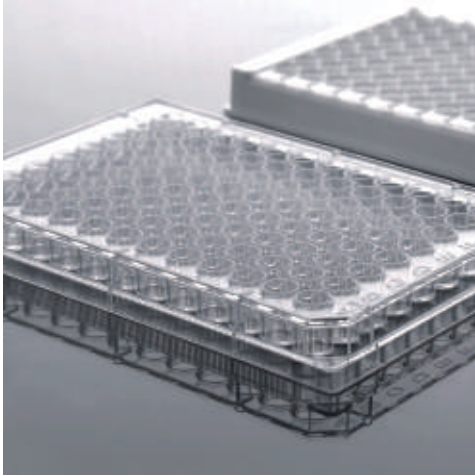
Products can be used for the collection and transportation of samples. After being preserved in different solutions, the collected tissue samples can be used for subsequent PCR extraction and detection, or for culture if necessary. Products are suitable for the sampling of virus, as well as mycoplasma, chlamydia, urea plasma, etc.

## Features

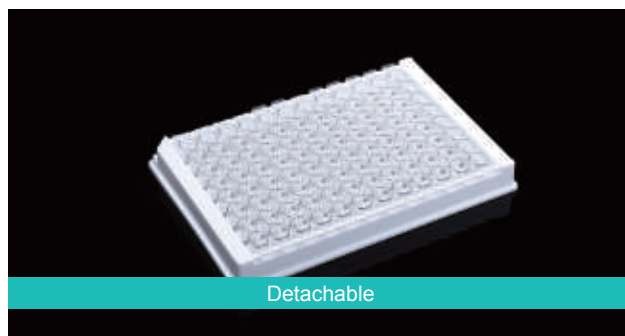
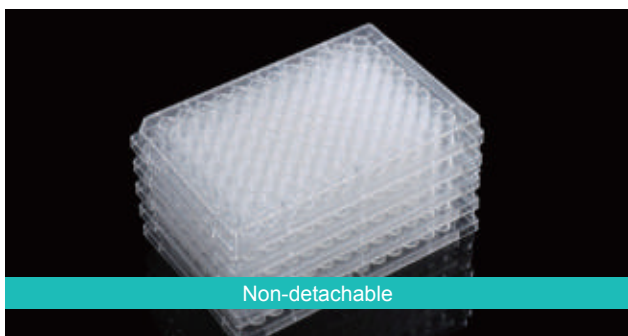
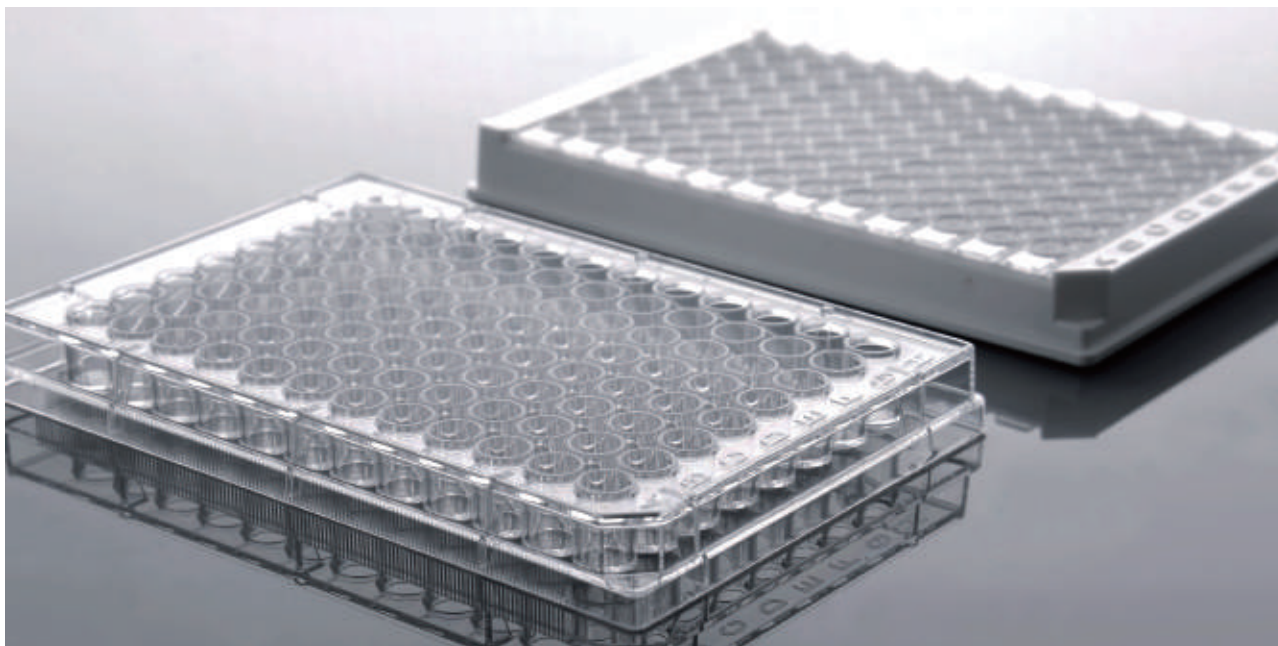
- Vials are made of polypropylene which meets USP Class VI standards.
- E-beam sterilized, SAL=10<sup>-6</sup>.
- Dnase/Rnase free and endotoxin free.
- Vials are available in 5 mL/10 mL sizes.
- The self-standing bottom is convenient for handling.
- Excellent sealing performance, no liquid leakage under pressure of -70kPa, ensuring safe and effective air transportation.

Cat.No.	Description	/Pack	/Case
619011	5 mL sample vials, caps screwed on	50	100
625001	10 mL sample vials, caps screwed on	50	100
619107	5 mL sample vials, double-threaded, screw caps separated	200	1000
625007	10 mL sample vials, screw caps separated	200	1000

# Molecular Biology







NEST ELISA plate, made of polystyrene, is a safe, reliable and effective supporter in enzyme-linked immuno-absorbent assay (ELISA). The features of the plates are crucial for the adsorption of antigens, antibodies and antigen-antibody complexes. ELISA plates from NEST adopts a unique surface treatment process, allowing to obtain ideal results in ELISA tests which are extensively employed in vitro diagnostics in medical and clinical laboratories.

## Features

- The plates are made of polystyrene and are designed specifically for ELISAs. They present good adsorption performance and low baseline value.
- Uniform thickness and size.
- High batch-to-batch stability and low coefficient of variation (CV) value.
- Both detachable and non-detachable flat-bottom plates are offered for customers to choose from based on their applications.
- The letters and numbers on the frame of the plates are convenient for detection and identification in experiments.
- High transparency of clear plate bottom.
- White plates are best suited for luminescence measurements as they reflect the signal instead of absorbing it and hence enhance the luminescence signals. Raw materials show good light-proof properties, which greatly reduce well-to-well signal interference.

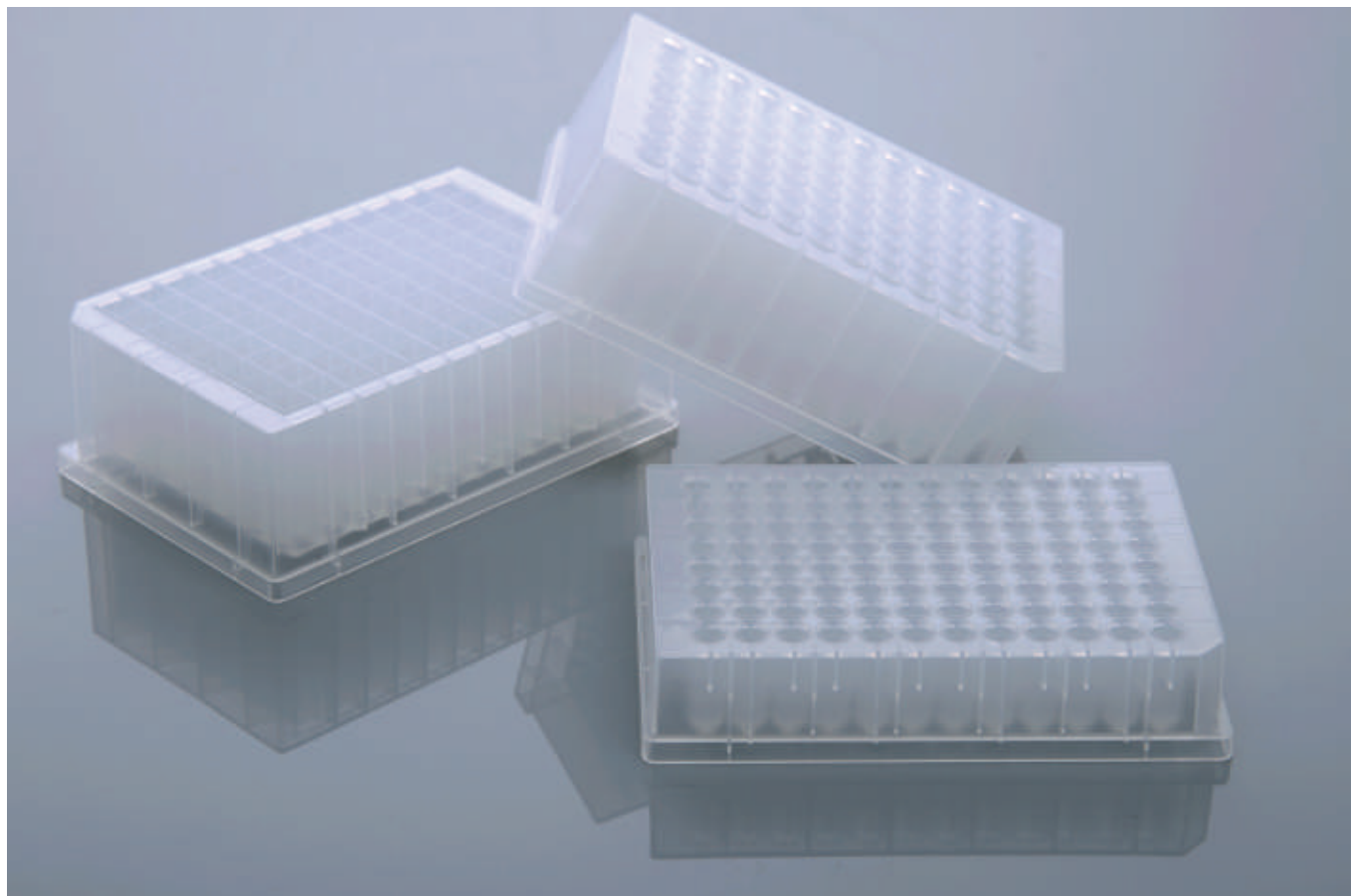
## Features of detachable 96-well ELISA plate

- Greatly improves the flexibility in diagnostic testing.
- Each well is locked in the frame, all at the same horizontal.
- The design of 8-well strip allows for uniform reading and washing.

Cat.No.	Description	/Pack	/Case
504201	96 Well ELISA Plate, Detachable,High Binding, White Frame & Clear Well	5	50
514201	96 Well ELISA Plate, Undetachable, High Binding, Clear	5	50
504271	96 Well ELISA Plate, Detachable,High Binding, White Frame & White Well	5	50



# Deep Well Plate



The length and width of the deep well plate comply with the SBS international standards. The deep well plates of NEST have a variety of specifications, conforming to the needs of fully automatic workstations and experiments.

## Features

- High quality imported PP material employed for high stability and no chemical reactions with test reagents.
- Compatible with DMSO and inert to water.
- Can be stored under subzero temperature from -40 to -80 °C.
- Maximum sustainable centrifuge force 4000g.
- Autoclavable at 20Psi, 121 °C for 20 minutes, great heating uniformity.
- Minimum residual liquid, low heavy metal content.
- Certified DNase/RNase and Pyrogen Free.
- Conformed to international SBS Standards.
- Good flat and can be transported for long distance if sealed by heat sealable film.
- Produced and packed in Class 100,000 clean workshop.
- Alphabetical sorting and corner cut marking for convenient tracking of samples.
- Each package has a separate article number/batch number identification, facilitating the quality tracking.

## Application

Genomic DNA extraction, plasmid DNA extraction, and purification of various samples. High-throughput automatic liquid operation to achieve high-throughput operations, such as protein precipitation, liquid extraction, and processing of animal tissues, bacteria, plants, soil, clinical samples, yeasts, etc.

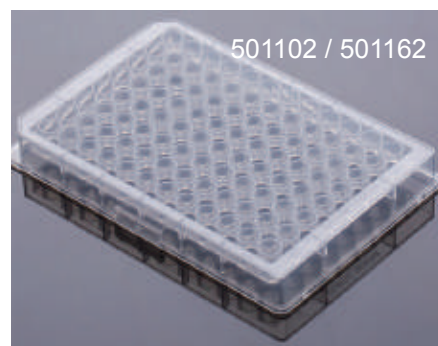
# Deep Well Plate



504102 / 504162



507001 / 507101



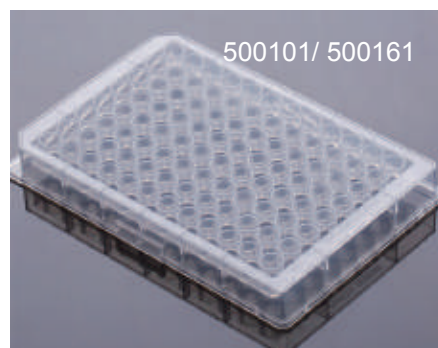
501102 / 501162



503102 / 503162



501101 / 501601



500101 / 500161

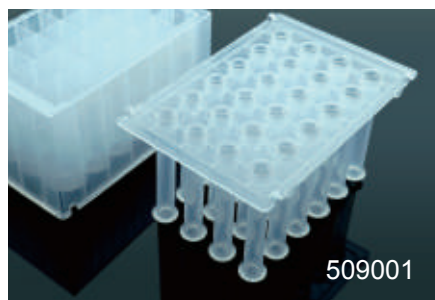
## Round Well

Non-sterile Cat.No.	Sterile Cat.No.	Description	/Pack	/Case
504102	504162	3.5 mL 48-Well Deep Well Plate, U-Bottom, Round well	5	50
501102	501162	0.4 mL 96-Well Deep Well Plate, U-Bottom, Round well	5	50
503102	503162	2.0 mL 96-Well Deep Well Plate, U-Bottom, Round Well	5	50
500101	500161	0.36 mL 96-Well Deep Well Plate, V-Bottom, Round well	10	50
501101	501601	0.5 mL 96-Well Deep Well Plate, V-Bottom, Round well	10	50
507001	507101	1.3 mL 96-Well Deep Well Plate, U-Bottom, Round well	5	50

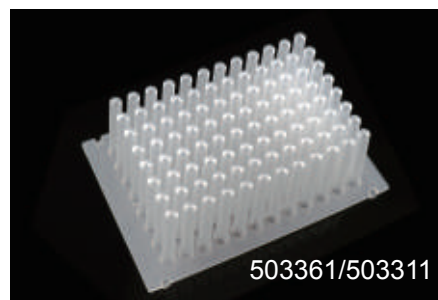
## Plastic Tip Comb



509211/509261



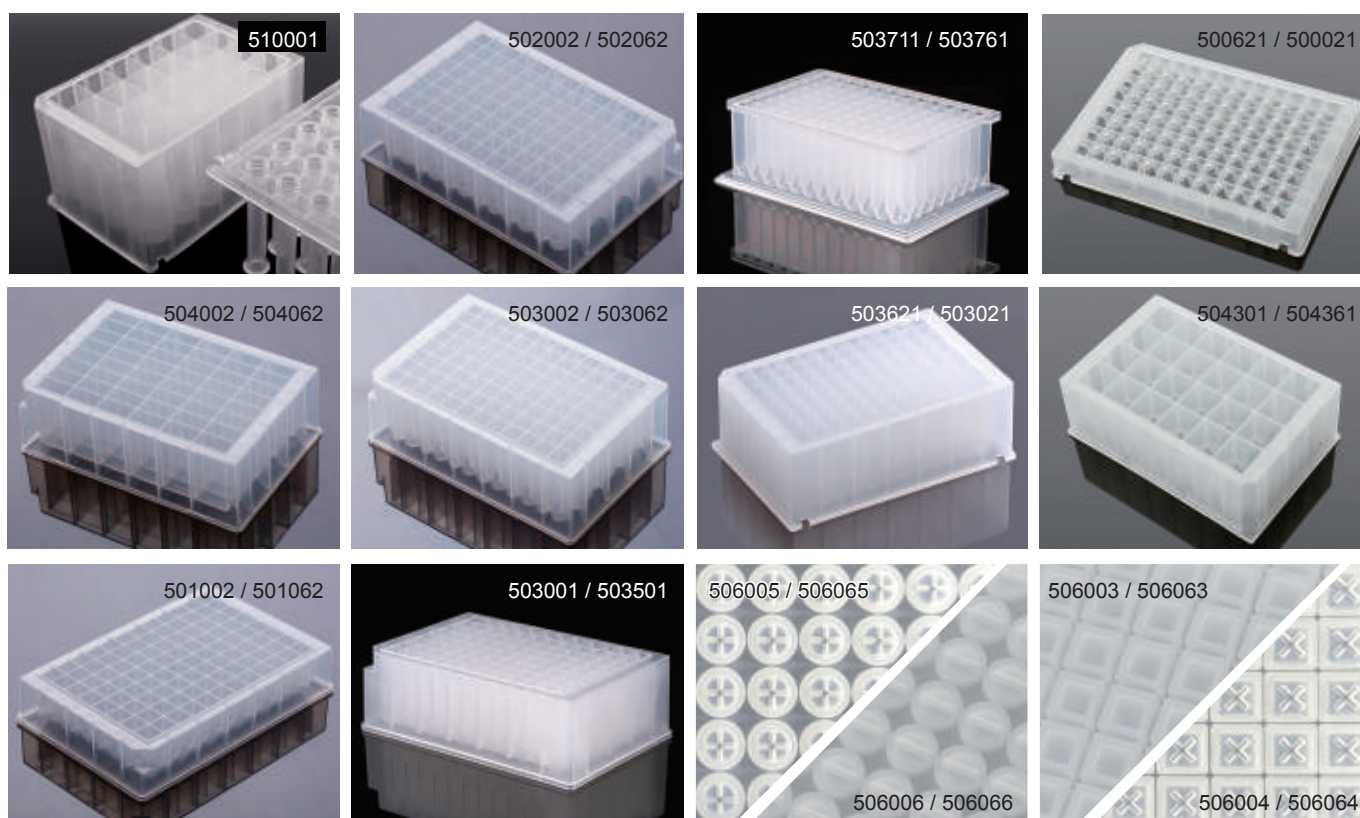
509001



503361/503311

Non-sterile Cat.No.	Sterile Cat.No.	Description	/Pack	/Case
509211	509261	8 Tip Combs, U-Bottom	2	500
503311	503361	96 Tip Combs for Magnetic applications 503311 Equivalents to Thermo Fisher #97002534 503361 Equivalents to Thermo Fisher #97002820	2	50
/	509001	24 Tip Combs, 67.6*13.5 mm, Compatible with Thermo KingFisher System	1	25

# Deep Well Plate



## Square Well

Non-sterile Cat.No.	Sterile Cat.No.	Description	/Pack	/Case
504062	504002	4.6 mL 48-Well Deep Well Plate, U-Bottom, Square well	5	50
501002	501062	1.0 mL 96-Well Deep Well Plate, U-Bottom, Square Well	5	50
502002	502062	1.6 mL 96-Well Deep Well Plate, U-Bottom, Square Well	5	50
503001	503501	2.0 mL 96-Well Deep Well Plate, V-Bottom, Square well	5	50
503002	503062	2.2 mL 96-Well Deep Well Plate, U-Bottom, Square Well	5	50
503711	503761	2.2 mL 96-Well Deep Well Plate, I-shaped, U-Bottom, Square Well	5	50
503021	503621	NEST MagPure 2.2 mL 96-Well Deep Well Plate, V-Bottom, Square Well, Compatible with Kingfiser Flex&Presto	5	50
500021	500621	NEST MagPure 0.5 mL 96-Well Deep Well Plate, V-Bottom, Square Well, Compatible with Kingfiser Flex&Presto	5	50
504301	504361	10.4 mL 24 Well Deep Well Plate, V-Bottom, Square Well	5	50
510071	510011	16 mL 24-Well Deep Well Plates, V Bottom, Square Well, with 24 Well Plastic Comb, 67.6*13.5 mm	1	25
/	510001	16 mL 24-Well Deep Well Plates, V Bottom, Square Well	1	25

## Silicone Sealing Mat

Non-sterile Cat.No.	Sterile Cat.No.	Description	/Pack	/Case
506005	506065	96 Well Round well Silicone Sealing Mat, can be punctured, $\leq 1.0$ mL	10	50
506006	506066	96 Well Round well Silicone Sealing Mat, 2.0 mL	10	50
506003	506063	96 Well Square well Silicone Sealing Mat	10	50
506004	506064	96 Well Square well Silicone Sealing Mat, can be punctured	10	50



# PCR Tube & PCR Plate





# PCR Tube & Cap

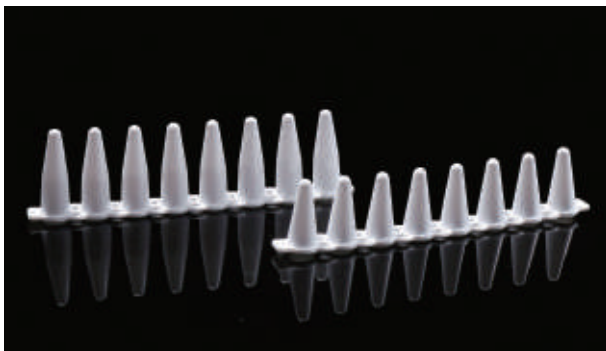
## Features

- Free of Dnase and Rnase, human DNA and PCR inhibitors.
- Autoclavable.



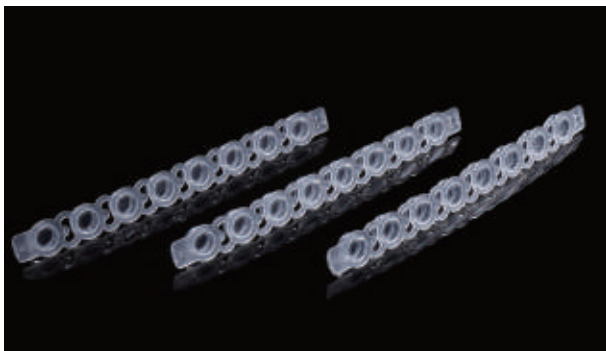
## PCR Tube

Cat.No.	Volume (mL)	/Pack	/Case
401001	0.2	1,000	10,000



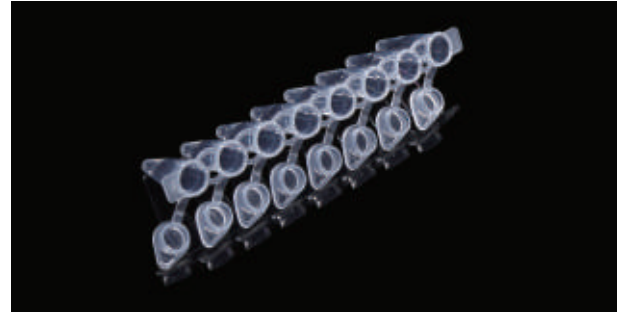
## PCR 8-strip Tube, White

Non-sterile Cat.No.	Sterile Cat.No.	Volume (mL)	/Pack	/Case
403112	403132	0.1	125	1,250
403012	403032	0.2	125	1,250



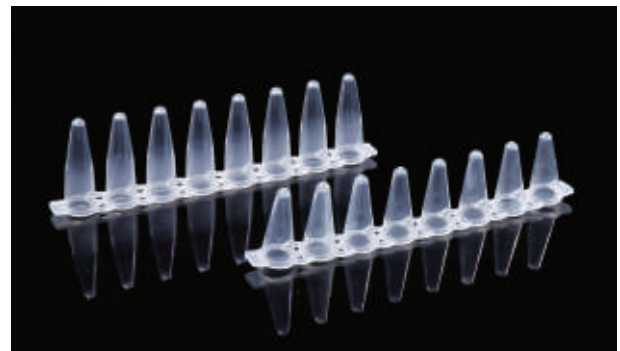
## PCR 8-strip Tube Cap

Non-sterile Cat.No.	Sterile Cat.No.	Cap Type	/Pack	/Case
406012	406022	Flat	125	1,250



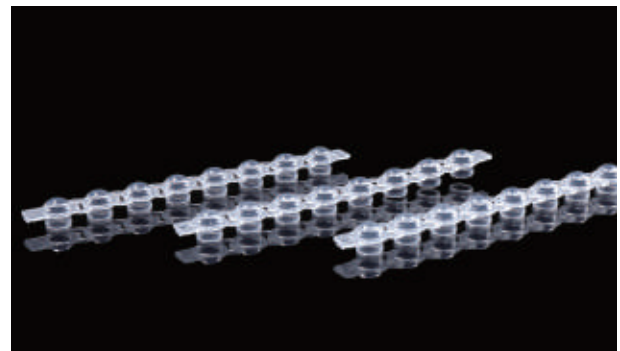
## PCR 8-strip Tube with Individual Cap Attached

Cat.No.	Volume (mL)	/Pack	/Case
404001	0.2	120	1,200



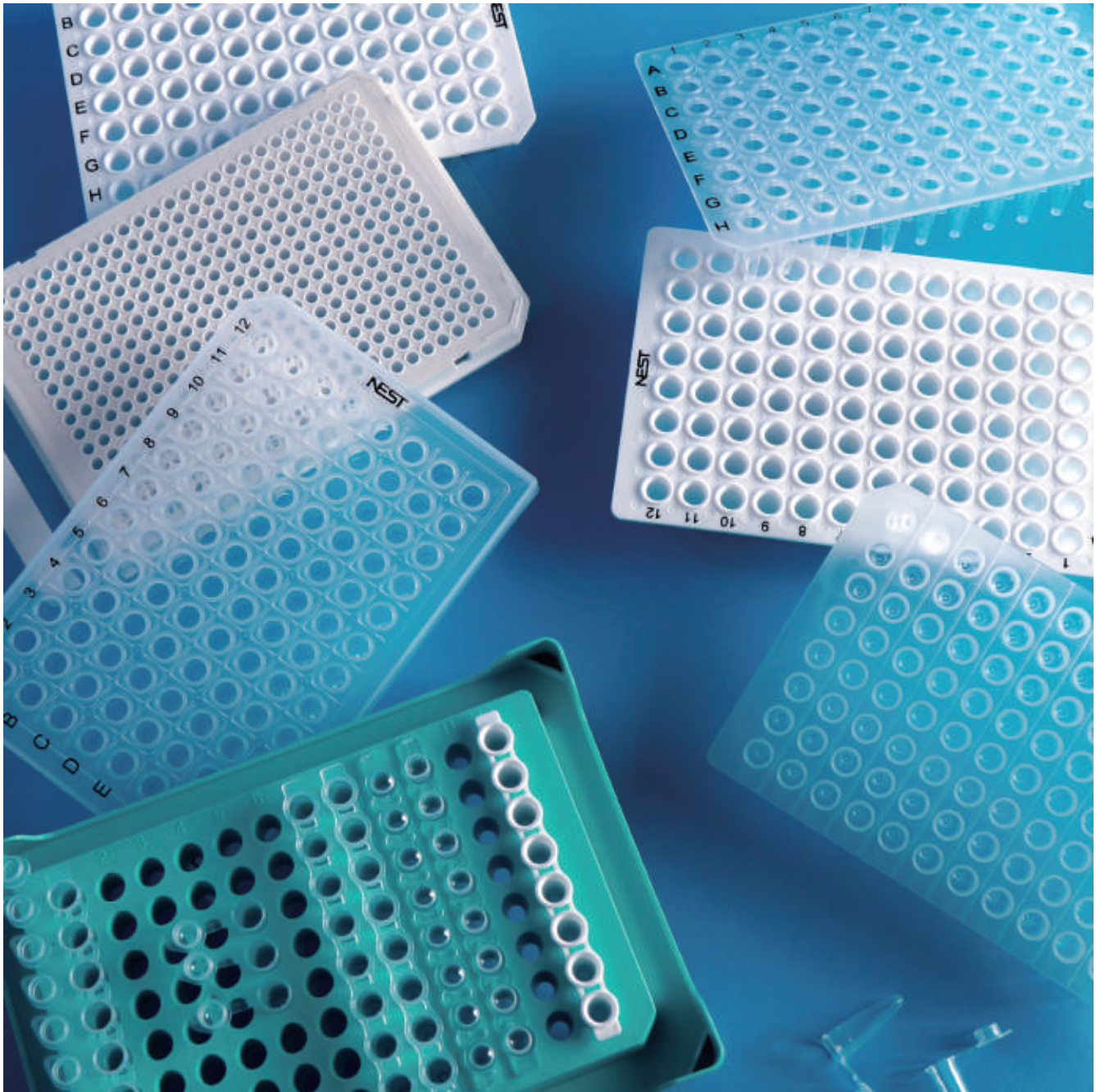
## PCR 8-strip Tube, Transparent

Non-sterile Cat.No.	Sterile Cat.No.	Volume (mL)	/Pack	/Case
403102	403122	0.1	125	1,250
403002	403022	0.2	125	1,250



## PCR 8-strip Tube Cap

Non-sterile Cat.No.	Sterile Cat.No.	Cap Type	/Pack	/Case
406112	406122	Domed	125	1,250



When using a thermal cycler with the fluorescence detector above the samples, NEST white PCR plates effectively mutual interference between wells. The Nest white PCR plate also allows for high accuracy of detection when signal intensity is low, while Nest clear PCR plates are designed for PCR machines where the fluorescence detector is located below the sample plate.

## Features

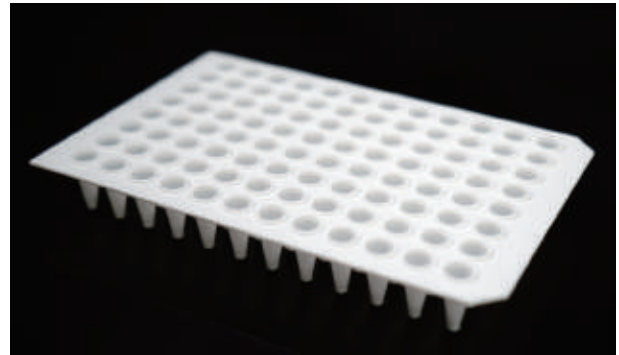
- Made of high-quality polypropylene to ensure minimal loss of reaction solution.
- Flat surface, thick and solid, not easy to deform.
- Elevated edge of the hole can better prevent cross contamination.
- Compatible with NEST pressure sensitive film, self-adhesive film and hot sealing film.
- Autoclavable.
- Certified DNase/RNase and Pyrogen Free.

# PCR Plate

## Compatible with Roche Systems



Cat.No.	Volume (mL)	Skirt Type	Cut Position	/Pack	/Case
402712	0.1	Full Skirt	H12	10	50



Cat.No.	Volume (mL)	Skirt Type	Cut Position	/Pack	/Case
402812	0.1	No Skirt	A12/H12	10	50



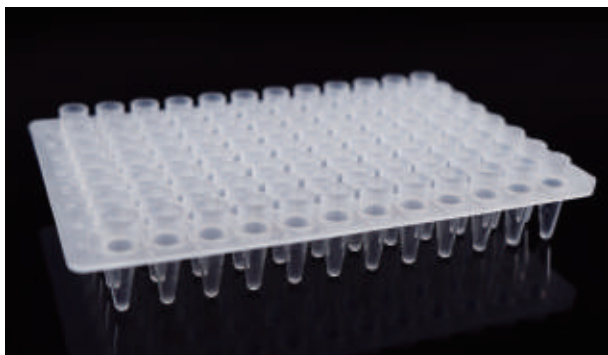
Non-sterile Cat.No.	Sterile Cat.No.	Volume (uL)	Skirt Type	Cut Position	/Pack	/Case
409013	409033	40	Full Skirt	A24/P24	10	50

## PCR Adaptation Table

Brand	Cat.No.	402712	402812	409013
	Instrument Model			
Roche	light cycler 480	✓		
	light cycler 480II	✓		✓
	light cycler 96	✓	✓	

## PCR Plate, No Skirt, Elevated Wells

Elevated wells plate is designed to reduce the risk of cross contamination.



Cat.No.	Volume (mL)	Skirt Type	Cut Position	/Pack	/Case
402201	0.2	No Skirt	H12	25	100

## PCR Plate, Full Skirt

Stronger construction and more space for labeling.



Non-sterile Cat.No.	Sterile Cat.No.	Volume (mL)	Skirt Type	Cut Position	/Pack	/Case
402501	402521	0.1	Full Skirt	H1	25	100

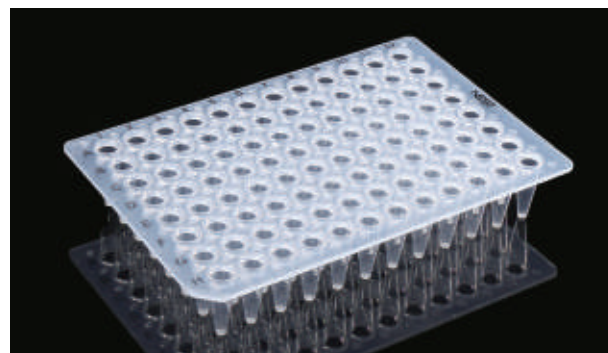


## PCR Plate, No Skirt

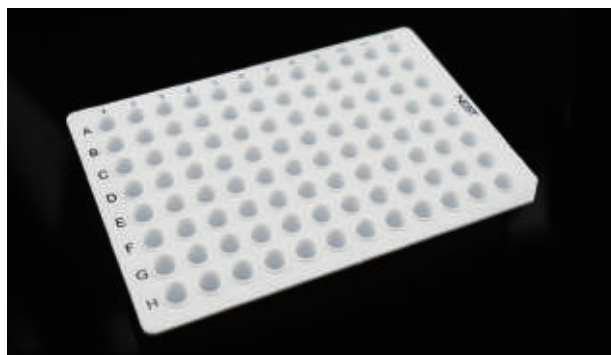
The low-profile design minimizes the condensate contamination and evaporation of reaction solution.



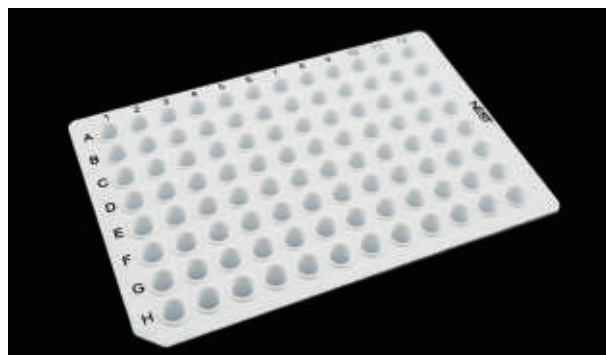
Cat.No.	Volume (mL)	Skirt Type	Cut Position	/Pack	/Case
402101	0.1	No Skirt	H12	25	100



Cat.No.	Volume (mL)	Skirt Type	Cut Position	/Pack	/Case
402001	0.2	No Skirt	H1	25	100



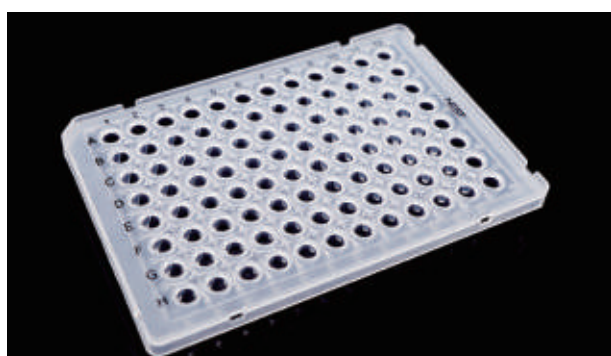
Cat.No.	Volume (mL)	Skirt Type	Cut Position	/Pack	/Case
402111	0.1	No Skirt	H12	25	100



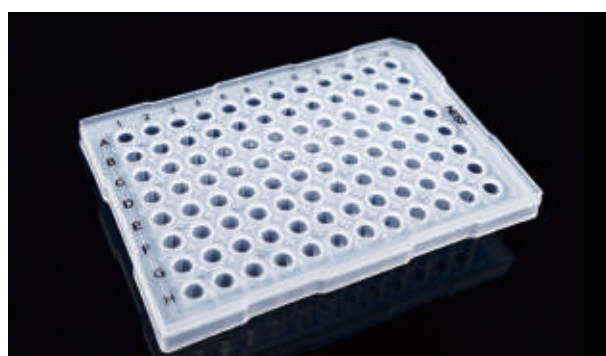
Cat.No.	Volume (mL)	Skirt Type	Cut Position	/Pack	/Case
402011	0.2	No Skirt	H1	25	100

## PCR Plate, Semi Skirt, Compatible with ABI Machines

Stronger construction and more space for labeling.



Cat.No.	Volume (mL)	Skirt Type	Cut Position	/Pack	/Case
402401	0.1	Semi Skirt	A1	25	100



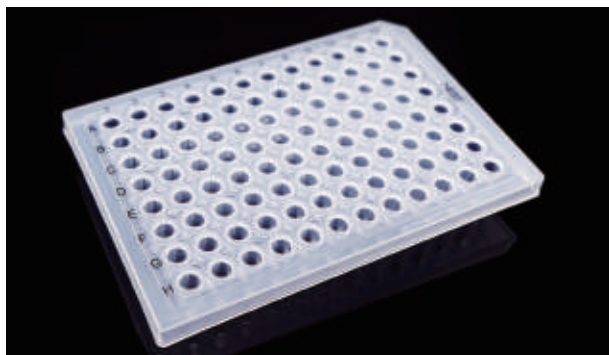
Cat.No.	Volume (mL)	Skirt Type	Cut Position	/Pack	/Case
402601	0.2	Semi Skirt	A12	25	100



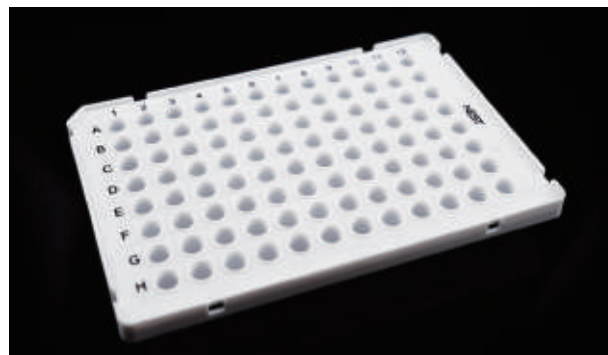
# PCR Plate

## PCR Plate, Semi Skirt

Stronger construction and more space for labeling.



Cat.No.	Volume (mL)	Skirt Type	Cut Position	/Pack	/Case
402301	0.2	Semi Skirt	A12	25	100



Cat.No.	Volume (mL)	Skirt Type	Cut Position	/Pack	/Case
402411	0.1	Semi Skirt	A1	25	100
402511	0.1	Semi Skirt	H1	25	100

# PCR Rack

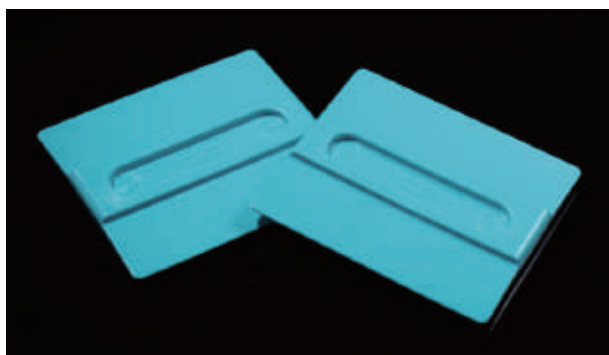
## Features

- Fits all NEST PCR products.
- Stackable.
- Autoclavable.

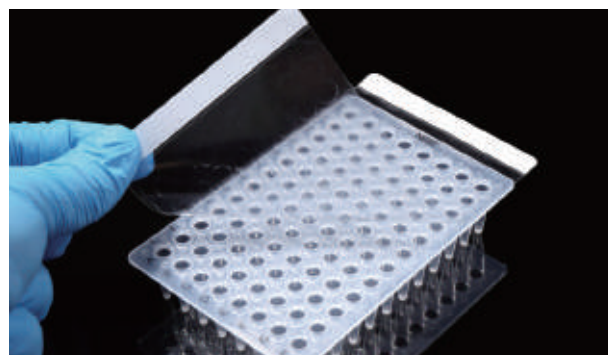
Cat.No.	Specification	/Pack	/Case
407001	8*12, One Rack & One Lid	1	25
407101	8*12, Five Racks & One Lid	5	25



# PCR Sealing Film & Scraper



Cat.No.	Size (mm)	/Pack
411001	70*78	1



Cat.No.	Specification	/Pack	/Case
410001	Standard Sealing Film, -20°C To 110°C	100	500
410011	Advanced Sealing Film, -70°C To 100°C	100	500
(NEW) 410021	PCR Sealing Film, -20°C To 110°C	100	500

Brand	Model Number		PCR Tube					PCR Plates						
	401001	403002/404001	403102/403122	403112/403132	403012/403032	404001/403022	402001	402301	402501	402401	402101	402812	402601	402201
Applied Biosystems®	2720	401001	403002/404001			404001/403022	402001	402301					402601	402201
	9600	401001	403002/404001			404001/403022	402001	402301					402601	
	9700	401001	403002/404001			404001/403022	402001	402301					402601	
	9800Fast			403102/403122						402401	402101			
	Veriti/Fast			403102/403122			402001	402301		402401	402101		402601	
	7000	401001	403002/404001		403012/403032	404001/403022	402001	402301					402601	
	7300	401001	403002/404001		403012/403032	404001/403022	402001	402301					402601	
	7500Fast	401001	403002/404001	403102/403122	403012/403032	404001/403022	402001	402301		402401	402101		402601	
	7700	401001	403002/404001			404001/403022	402001	402301					402601	
	7900HT/Fast	401001	403002/404001	403102/403122		404001/403022	402001	402301		402401	402101		402601	
	StepOne			403102/403122	403112/403132					402401	402101	402812		
	StepOnePlus			403102/403122	403112/403132					402401	402101	402812		
	ProflexPCRSys	401001	403002/404001			404001/403022	402001	402301					402601	
	QuantStudio 12K	401001	403002/404001			404001/403022	402001	402301					402601	
	ViiA7/Fast	401001	403002/404001	403102/403122		403012/403032	402001	402301		402401	402101		402601	
3100						402001	402301					402601		
3130						402001	402301					402601		
3700						402001	402301					402601		
3730/3730x						402001	402301					402601		
Eppendorf®	Mastercycler®	401001	403002/404001			404001/403022	402001	402301	402501					
	Mastercycler® ep realplex	401001	403002/404001			404001/403022	402001	402301	402501					
	Mastercycler ep	401001	403002/404001			404001/403022	402001	402301	402501					
	Mastercycler nexus	401001	403002/404001			404001/403022	402001	402301	402501					
	Mastercycler nexus eco	401001	403002/404001			404001/403022	402001	402301	402501					
	Mastercycler nexus flat	401001				404001/403022								
	Mastercycler nexus flat eco	401001	403002/404001			404001/403022								

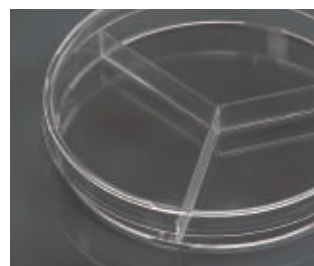
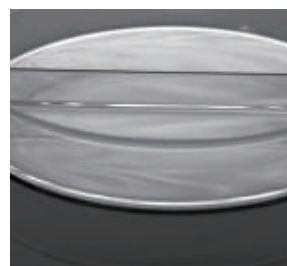
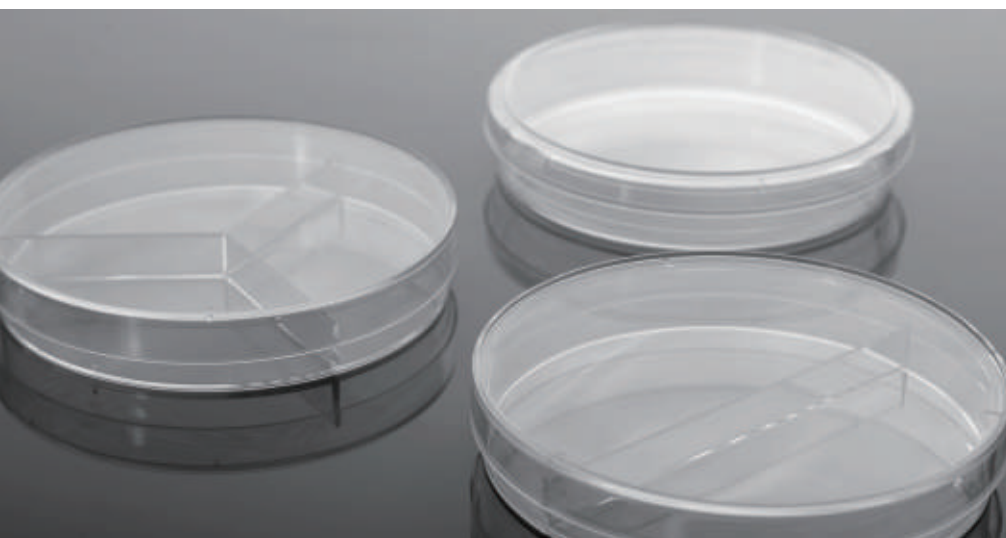
Eppendorf®	Mastercycler nexus gradient	401001	403002/404001						404001/403022	402001	402301	402501				
	Mastercycler nexus gradient eco	401001	403002/404001						404001/403022	402001	402301	402501				
	Mastercycler nexus GSX1	401001	403002/404001						404001/403022	402001	402301	402501				
	Mastercycler nexus GSX1e	401001	403002/404001						404001/403022	402001	402301	402501				
	Mastercycler nexus SX1	401001	403002/404001						404001/403022	402001	402301	402501				
	Mastercycler nexus SX1e	401001	403002/404001						404001/403022	402001	402301	402501				
	Mastercycler pro/S	401001	403002/404001						404001/403022	402001	402301	402501				
Techne®	3Prime	401001	403002/404001						404001/403022							
	3PrimeG	401001	403002/404001						404001/403022							
	3PrimeX	401001	403002/404001						404001/403022							
	Cyclogene™	401001	403002/404001						404001/403022	402001	402301	402501				
	Flexigene™	401001	403002/404001						404001/403022	402001	402301	402501				
	Genius	401001	403002/404001						404001/403022	402001	402301	402501				
	Genius Quad	401001	403002/404001						404001/403022	402001	402301	402501				
	Genius (TC412)	401001	403002/404001						404001/403022	402001	402301	402501		402101		
	Prime	401001	403002/404001						404001/403022	402001	402301	402501				
	Prime Elite	401001	403002/404001						404001/403022	402001	402301	402501				
	Prime Elite Satellite	401001	403002/404001						404001/403022	402001	402301	402501				
	PrimeG	401001	403002/404001						404001/403022	402001	402301	402501				
	Touchgene®Gradient(TC512)	401001	403002/404001			403102/403122			404001/403022	402001	402301	402501		402101		
	Touchgene®X	401001	403002/404001			403102/403122			404001/403022	402001	402301	402501		402101		
	PrimeQ	401001	403002/404001						404001/403022	402001	402301	402501				
Analytik Jena/ Biometra	Quantica®	401001	403002/404001						404001/403022	402001	402301	402501				
	FlexCycler	401001	403002/404001			403102/403122			404001/403022	402001	402301	402501		402101		
	T1 Thermal Cycler	401001	403002/404001			403102/403122			404001/403022	402001	402301	402501		402101		
	TGradient	401001	403002/404001			403102/403122			404001/403022	402001	402301	402501		402101		
	Tpersonal	401001	403002/404001			403102/403122			404001/403022	402001	402301	402501		402101		
	TProfessional/Basic	401001	403002/404001			403102/403122			404001/403022	402001	402301	402501		402101		

Analytik Jena/ Biometra	TPProfessional/Standard	401001	403002/404001	403102/403122				404001/403022	402001	402301	402501		402101			
	TPProfessional/TIRO	401001	403002/404001	403102/403122				404001/403022	402001	402301	402501		402101			
	TRobot	401001	403002/404001	403102/403122				404001/403022	402001	402301	402501		402101			
	Uno	401001	403002/404001	403102/403122				404001/403022	402001	402301	402501		402101			
	Uno II	401001	403002/404001	403102/403122				404001/403022	402001	402301	402501		402101			
	q TOWER	401001	403002/404001						402001	402301	402501					
	SpeedCycler <sup>2</sup>	401001	403002/404001						402001	402301	402501					
	T Optical	401001	403002/404001						402001	402301	402501					
	C1000™ Touch™	401001	403002/404001					404001/403022	402001	402301	402501					
	DNA Engine Dyad®/Dyad Disciple	401001	403002/404001					404001/403022	402001	402301	402501					
Biorad®/ MJ Research™	Engine Tetrad®2	401001	403002/404001					404001/403022	402001	402301	402501					
	MyCycler™	401001	403002/404001					404001/403022	402001	402301	402501					
	PTC-100®	401001	403002/404001					404001/403022	402001	402301	402501					
	PTC-200	401001	403002/404001					404001/403022	402001	402301	402501					
	PTC-225 Tetrad	401001	403002/404001					404001/403022	402001	402301	402501					
	S1000™	401001	403002/404001					404001/403022	402001	402301	402501					
	T100™	401001	403002/404001					404001/403022	402001	402301	402501					
	CFX Connect™	401001	403002/404001	403102/403122				404001/403022	402001	402301	402501		402101			
	CFX96™ Touch/CFX96	401001		403102/403122	403112/403132			404001/403022			402501		402101	402812		
	Chrom4™	401001	403002/404001					404001/403022	402001	402301	402501					
	DNA Engine Opticon®2	401001	403002/404001					404001/403022	402001	402301	402501					
	iCycler	401001	403002/404001					404001/403022	402001	402301	402501					
	iQ™5	401001	403002/404001					404001/403022	402001	402301	402501					
	MiniOpticon™	401001	403002/404001					404001/403022	402001	402301	402501					
	MyIQ™	401001	403002/404001					404001/403022	402001	402301	402501					
	Opticon			403102/403122	403112/403132						402501		402101			
	miniOpticon				403112/403132									402812		
	BaseStation™									402301	402501					
	MJ research option													402812		
	Opticon2			403102/403122							402501		402101	402812		

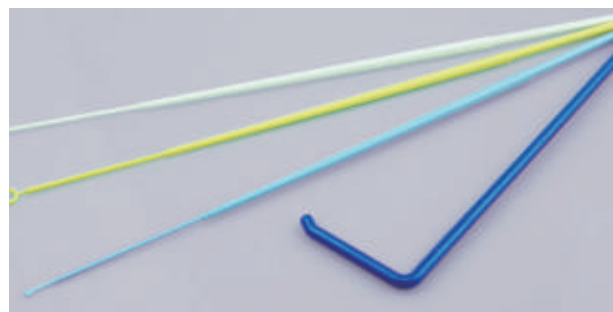


Thermo Hybaid	Multiblock System	401001	403002/404001	403102/403122					404001/403022	402001	402301	402501		402101		
	T1 Thermal Cycler	401001	403002/404001	403102/403122					404001/403022	402001	402301	402501		402101		
	Omn-E	401001	403002/404001	403102/403122					404001/403022	402001	402301	402501		402101		
	Omnigene	401001	403002/404001	403102/403122					404001/403022	402001	402301	402501		402101		
	PCR Express	401001	403002/404001	403102/403122					404001/403022	402001	402301	402501		402101		
	PCR Sprint	401001	403002/404001						404001/403022							
	Px2	401001	403002/404001	403102/403122					404001/403022	402001	402301	402501		402101		
	PxE	401001	403002/404001	403102/403122					404001/403022	402001	402301	402501		402101		
	Touchdown	401001	403002/404001	403102/403122					404001/403022	402001	402301	402501		402101		
	Deltacycler I	401001	403002/404001	403102/403122					404001/403022	402001	402301			402101		
Ericom	Single Block	401001	403002/404001	403102/403122					404001/403022	402001	402301			402101		
	Twin Block	401001	403002/404001	403102/403122					404001/403022	402001	402301			402101		
	Mx3000®	401001	403002/404001							402001	402301					
	Mx3000P®	401001	403002/404001							402001	402301					
Stratagene	Mx3005®	401001	403002/404001							402001	402301					
	Mx4000®	401001	403002/404001							402001	402301					
	SureCycler®8800	401001	403002/404001	403102/403122					404001/403022	402001	402301	402501	402401			
	ARIA MX G8830A				403112/403132									402812		
Qiagen®	Flexigene®	401001	403002/404001						404001/403022	402001	402301	402501				
	Rotor-Gene® Q	401001							404001/403022							
	Primus 96	401001	403002/404001	403102/403122						402001	402301	402501		402101		
PeqLab®	peqSTAR 96	401001	403002/404001						404001/403022	402001	402301	402501				
SensoQuest	Thermocycle 96	401001	403002/404001							402001	402301	402501				
Stratagene	Robocycler	401001	403002/404001						404001/403022	402001	402301	402501				
TaKaRa®	TP240	401001	403002/404001							402001	402301	402501				
	天隆 TL988-IV				403112/403132											
	TP3000	401001	403002/404001	403102/403122					404001/403022	402001	402301	402501		402101		
Amersham®GE®	MegaBACE®500										402301	402501				
	MegaBACE1000										402301	402501				402201
Beckman Coulter®	CEQ™										402301					
Transgenomic	WAVE®System										402301	402501				

# Bacteria



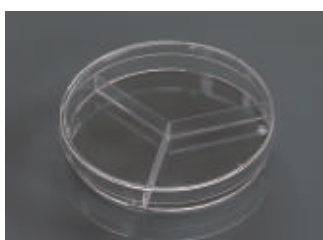
**Your Best Choice for Laboratory and Medical Consumables**



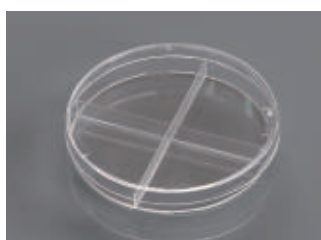
# Petri Dish



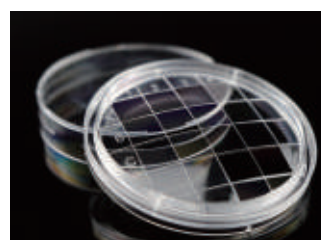
20 x 2



13 x 3



10 x 4



RODAC Dish

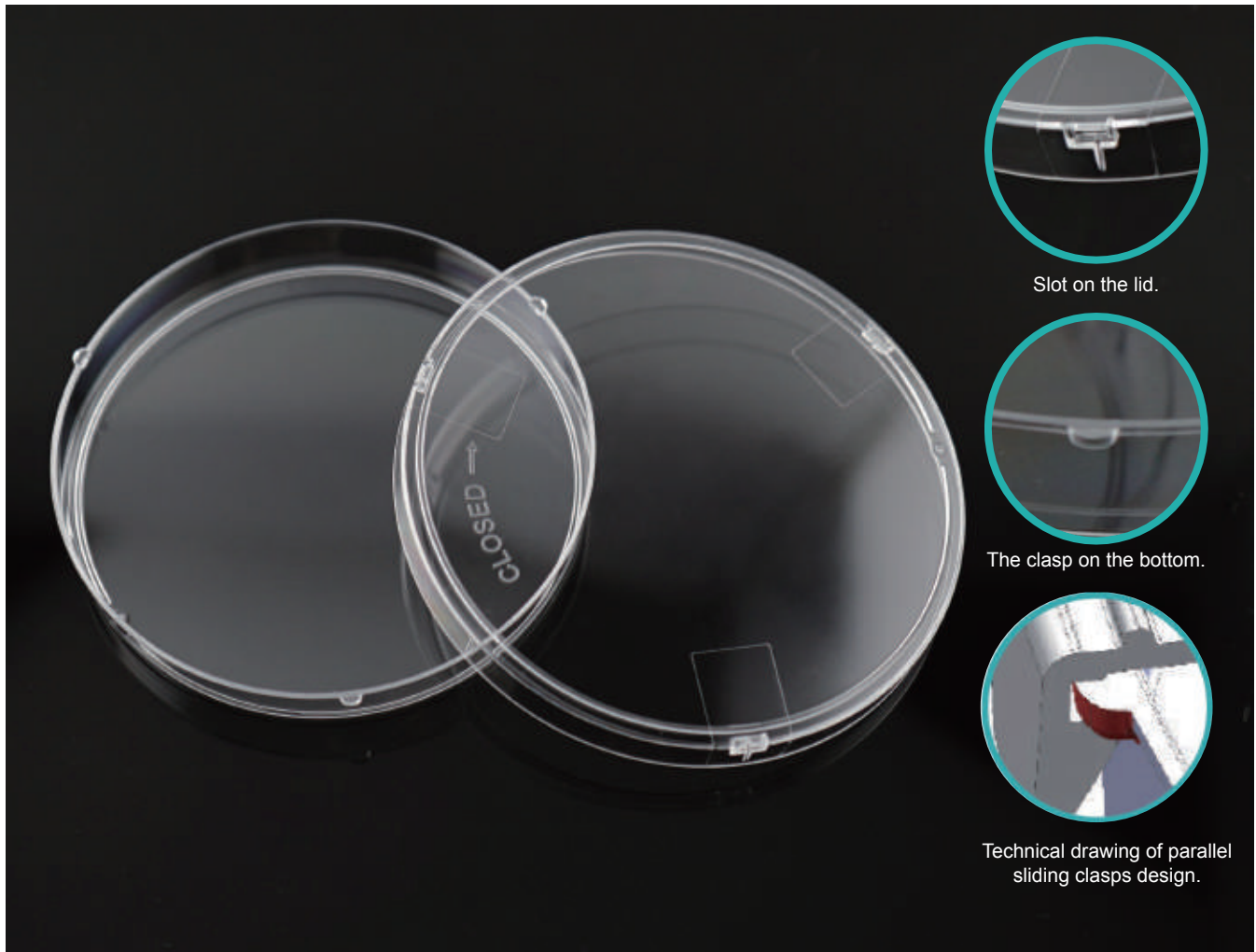
These non-treated polystyrene plates are transparent and DNase/RNase-Free. The bottom has a ridge allowing for easy handling and stacking. The plate has three vents for gas exchange.

## Features

- Made of high clarity, 100% virgin polystyrene.
- Sterilized by E-beam, SAL=10<sup>-6</sup>.
- Flat, transparent surface.
- Stackable for easy storage and handling.
- Non-Pyrogenic, DNase/Rnase free.

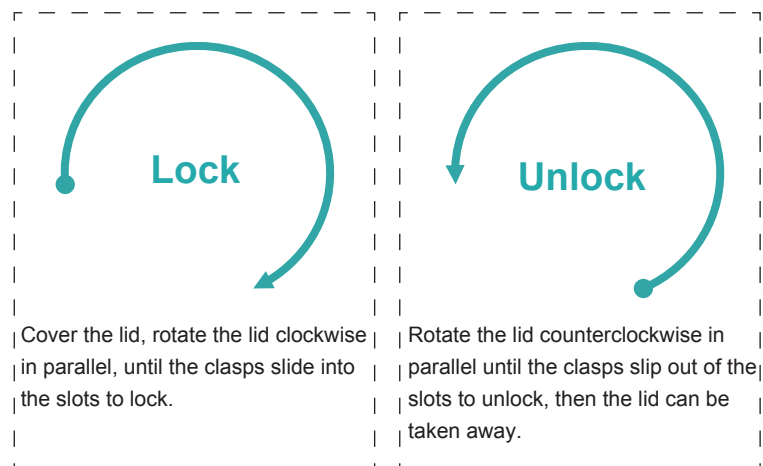
Cat.No.	Spec(mm)		Volume (mL)	/Pack	/Case
	Diameter	Height			
706011	35	12	5	20	500
754001	60	15	15	20	500
752001(US: 753001)	90	15	40	20	500
752002	90	15	40	20 Double-layer Packed	500
752004	90	15	40	10	500
752003	90	15	40	5	500
752011(US:753011)	90	15	20 x 2 Compartments	20	500
752021(US: 753021)	90	15	13 x 3 Compartments	20	500
752031(US: 753031)	90	15	10 x 4 Compartments	20	500
752401	100	20	40	20	300
753001	100	15	40	20	500
715011	150	15	60	10	100
755001	150	25	/	20	500
722011	65	15	13 - 15	20	500

# Petri Dish with Safe-lock Design



## Parallel Sliding Clasps Design

Each dish has three sets of parallel sliding clasp, compare with standard dish, you don't need to worry about the lid or bottom falling off if you don't hold it properly.



Cat.No.	Spec(mm)		Volume (mL)	/Pack	/Case
	Diameter	Height			
752101	90	15	40	20	500



# L-Spreader



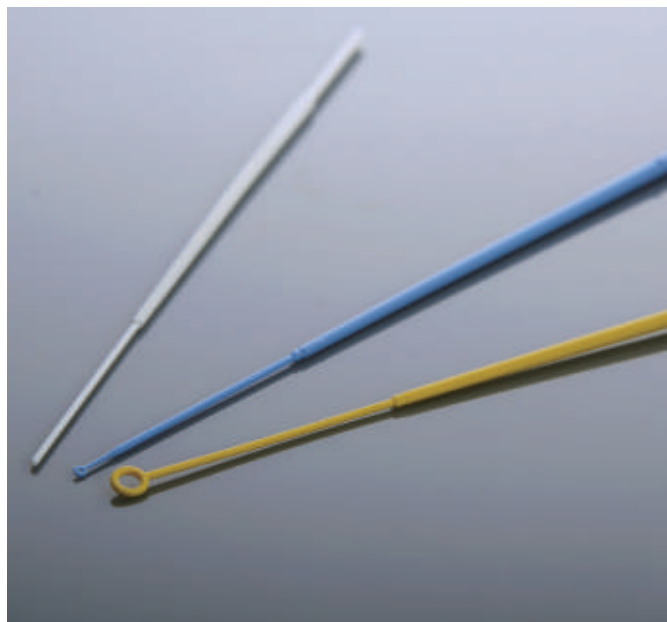
As a high precision grinding tool out of ergonomic design, the efficient sterile L-Spreader is developed and manufactured to effectively solve problems such as contamination or uneven application of spread plate in bio-labs, which helps to make domestic biological testing practitioners more efficient and simplify their tedious work during biological experiments.

## Features

- Sterile L-Spreader, made of using medical PS.
- Sterilized by E-beam, SAL=10<sup>-6</sup>.
- Smooth and flat surface that avoids problems such as contamination or uneven application of spread plate in bio-labs.
- Length of handle: 144mm, diagram of spreading: 33mm, suitable for 3.5cm, 6cm, 9cm, 10cm petri dishes and etc. Ideal for spreading cells or bacteria evenly in the culture dish.

Cat.No.	Name	/Pack	/Case
711001	L-Spreader, Blue	200	2,000

# Inoculating Needle / Loop

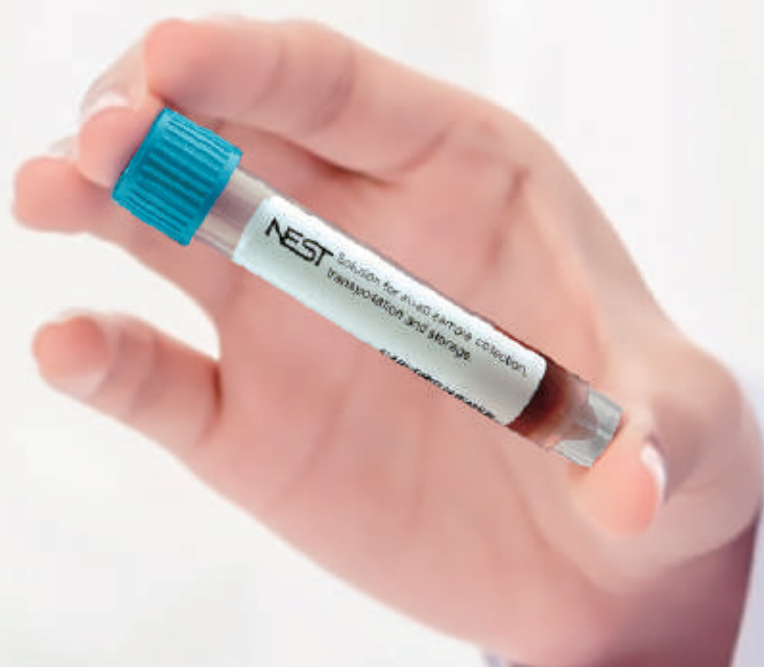


## Features

- PP material, hydrophilic.
- Applied in microbiology experiments.
- Different colors for identification.
- Flexible handles for easier collection and inoculation.
- Sterilized by Ethylene Oxide.
- Easy-tear sterile individual packaging.

Cat.No.	Volume (μL)	Name	Color	/Pack	/Case
716001	/	Inoculating Needle	White	400	4,000
717101	1	Inoculating Loop	Blue	400	4,000
718201	10	Inoculating Loop	Yellow	400	4,000

# Medical Consumable



# Five Types of Swabs



Registration Certification of Class II  
Medical Devices Registration  
No. : 20212221578.

## Nasopharyngeal Swab

Breakpoint

## Oropharyngeal Swab

Breakpoint

Breakpoint

## Oropharyngeal/Nares Specimen Collection Swab, Double Break Point

Breakpoint

Breakpoint

## Oropharyngeal/Nares Specimen Collection Swab, Single Break Point

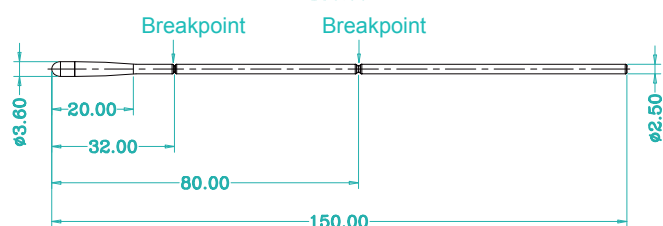
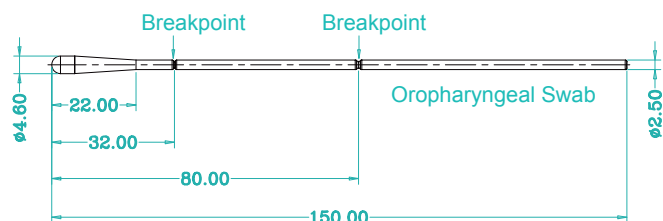
Breakpoint

## Capture Cap Swab

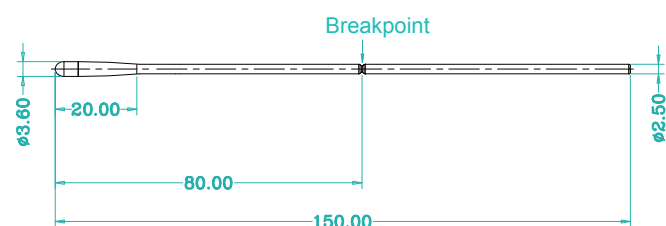
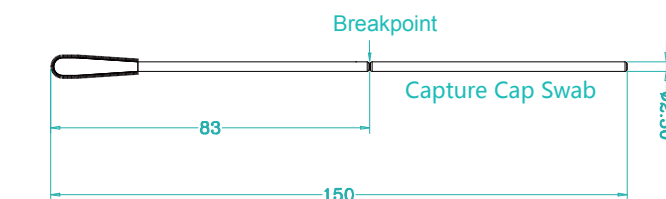
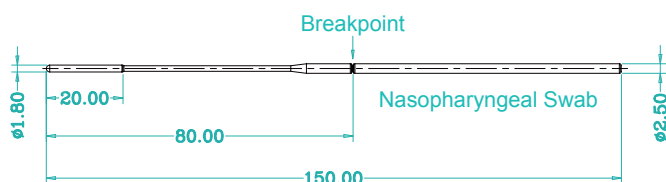
Breakpoint

## ADVANTAGE:

- Swab head is flocked nylon, and swab shaft is made of ABS (Acrylonitrile butadiene styrene).
- Non-toxic.
- Individually wrapped and sterile.
- CE, FDA, ISO certified.



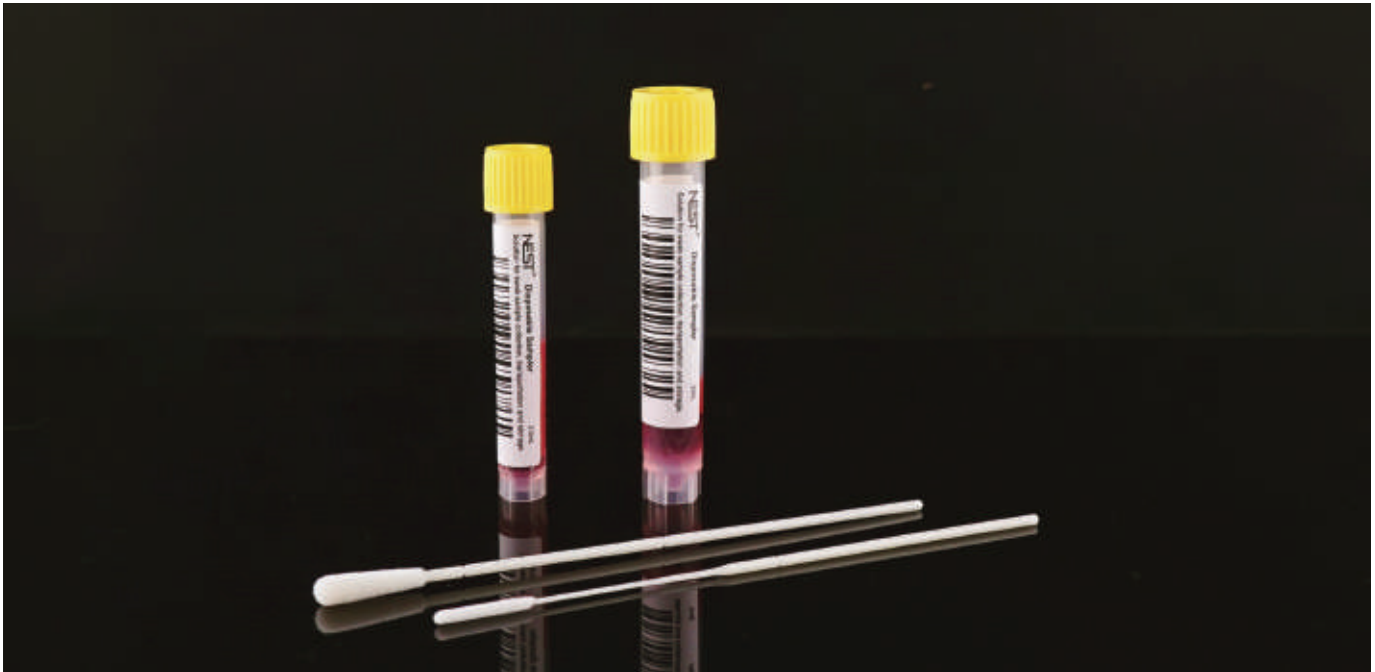
Oropharyngeal / Nares Specimen Collection Swab, Double Break Point



Oropharyngeal/Nares Specimen Collection Swab, Single Break Point

Cat.No.	Descriptions	/Pack	/Case
202003	Oropharyngeal Specimen Collection Swab, Individually Wrapped, Sterile	100	5000
202004	Nasopharyngeal Specimen Collection Swab, Individually Wrapped, Sterile	100	5000
202401	Oropharyngeal Specimen Collection Swab, Capture Cap Swabs, Individually Wrapped, Sterile	100	5000
202095 (NEW)	Oropharyngeal/Nares Specimen Collection Swab, Double Break Point, Individually Wrapped, Sterile	100	5000
202098 (NEW)	Oropharyngeal/Nares Specimen Collection Swab, Single Break Point, Individually Wrapped, Sterile	100	5000
202695	Disposable Sampler, 2 mL Vial, with Individually Wrapped and Sterile Oropharyngeal Swabs	10	50
202091	Disposable Sampler, 5 mL Vial, with Individually Wrapped and Sterile Nasopharyngeal Swabs	10	50

# Viral Transport Medium



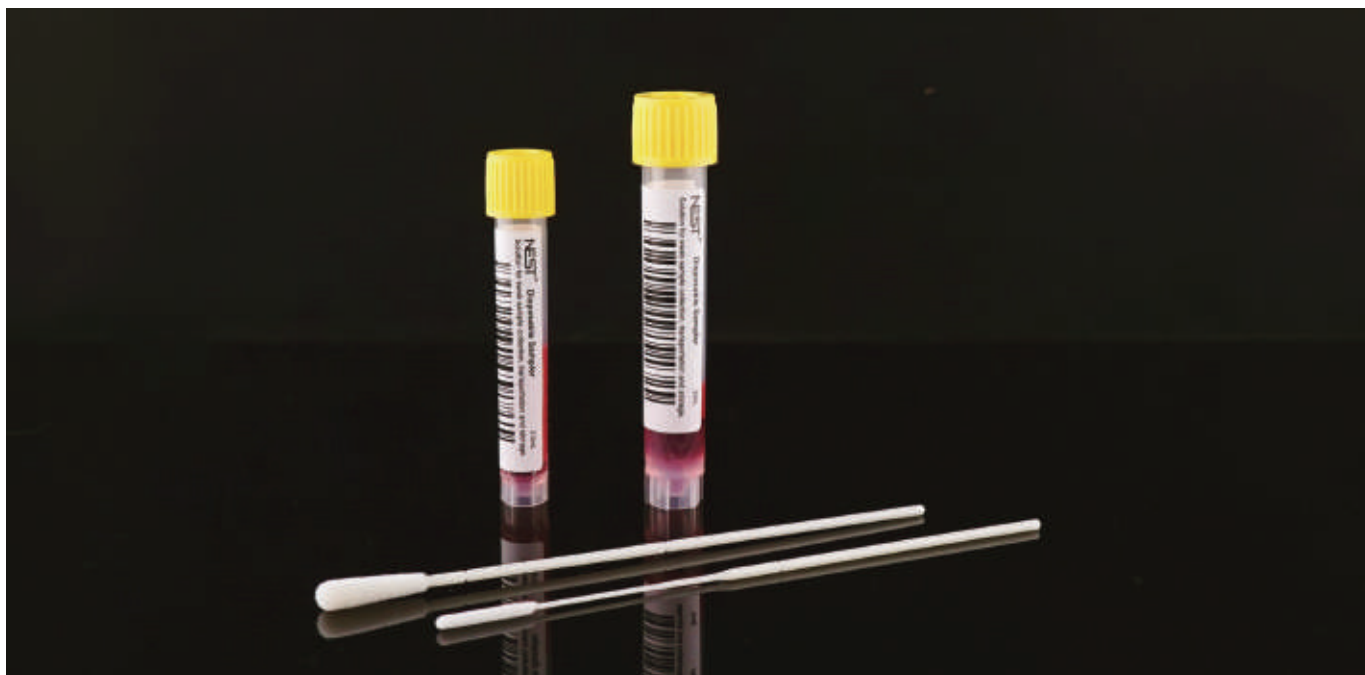
## Features

- Used for collection, storage and transportation of human nasopharyngeal virus samples.
- Unused VTM medium can be transported at room temperature.
- Sample transport temperature requirement & storage time: 2 to 4 C°, 48 h.

Cat.No.	Description	/Pack	/Case
202011	Disposable Sampler, 5 mL Vial with 2.5 mL VTM, with Individually Wrapped and Sterile Oropharyngeal Swab, 10 Vials/pk, 50 Vials + 50 Swabs/cs	10	50
202015	Disposable Sampler, 5 mL Vial with 2.5 mL VTM, with Individually Wrapped and Sterile Nasopharyngeal Swabs, 10 Vials/pk, 50 Vials + 50 Swabs/cs	10	50
202012	Disposable Sampler, 5 mL Vial with 2.5 mL VTM, with Individually Wrapped and Sterile Oropharyngeal Swabs, 1 Vial + 1 Oral Swab/pk, 100 pk/cs	1	100
202014	Disposable Sampler, 5 mL Vial with 2.5 mL VTM, with Individually Wrapped and Sterile Nasopharyngeal Swabs, 1 Vial + 1 NP Swab/pk, 100 pk/cs	1	100
202115	Disposable Sampler, 5 mL Vial with 2.5 mL VTM, 10 Vials/pk, 100 Vials/cs	10	100
202117	Disposable Sampler, 10 mL Vial with 3 mL VTM, 10 Vials/pk, 100 Vials/cs	10	100
202061	Disposable Sampler, 10 mL Vial with 3 mL VTM, with Individually Wrapped and Sterile Oropharyngeal Swab, 10 Vials/pk, 50 Vials + 50 Swabs/cs	10	50
202065	Disposable Sampler, 10 mL Vial with 3 mL VTM, with Individually Wrapped and Sterile Nasopharyngeal Swabs, 10 Vials/pk, 50 Vials + 50 Swabs/cs	10	50
202016	Disposable Sampler, 10 mL Vial with 3 mL VTM, with Individually Wrapped and Sterile Oropharyngeal Swabs, 1 Vial + 1 Oral Swab/pk, 100 pk/cs	1	100
202017	Disposable Sampler, 10 mL Vial with 3 mL VTM, with Individually Wrapped and Sterile Nasopharyngeal Swabs, 1 Vial + 1 NP Swab/pk, 100 pk/cs	1	100
202019	Disposable Sampler, 5 mL Vial with 2.5 mL VTM, with Individually Wrapped and Sterile Oropharyngeal & Nasopharyngeal Swabs, 1 Vial + 1 NP Swab/pk 1 Oral Swab/pk, 100 pk/cs	1	100
202018	Disposable Sampler, 10 mL Vial with 3 mL VTM, with Individually Wrapped and Sterile Oropharyngeal & Nasopharyngeal Swabs, 1 Vial + 1 NP Swab/pk 1 Oral Swab/pk, 100 pk/cs	1	100



# Inactivation Transport Medium



## Features

- ITM medium serves to both inactivate viruses and prevent nucleic acid degradation.
- Room temperature transport.
- Samples can be stored at room temperature for 20 days.
- Used for collection, storage and transportation of viruses, chlamydia, mycoplasma and urea plasma.

Cat.No.	Description	/Pack	/Case
202001	Disposable Sampler, 5 mL Vial with 2 mL ITM, with Individually Wrapped and Sterile Oropharyngeal Swab, 10 Vials/pk, 50 Vials + 50 Swabs/cs	10	50
202005	Disposable Sampler, 5 mL Vial with 2 mL ITM, with Individually Wrapped and Sterile Nasopharyngeal Swabs, 10 Vials/pk, 50 Vials + 50 Swabs/cs	10	50
202008	Disposable Sampler, 5 mL Vial with 2 mL ITM, with Individually Wrapped and Sterile Nasopharyngeal Swabs, 1 Vial + 1 NP Swab/pk, 100 pk/cs	1	100
202039	Disposable Sampler, 5 mL Vial with 2 mL ITM, with Individually Wrapped and Sterile Oropharyngeal & Nasopharyngeal Swabs, 1 Vial + 1 NP Swab/pk +1 Oral Swab/pk, 100 pk/cs	1	100
202006	Disposable Sampler, 10 mL Vial with 3 mL ITM, with Individually Wrapped and Sterile Oropharyngeal Swabs, 1 Vial + 1 Oral Swab/pk, 100 pk/cs	1	100
202007	Disposable Sampler, 10 mL Vial with 3 mL ITM, with Individually Wrapped and Sterile Nasopharyngeal Swabs, 1 Vial + 1 NP Swab/pk, 100 pk/cs	1	100
202038	Disposable Sampler, 10 mL Vial with 3 mL ITM, with Individually Wrapped and Sterile Oropharyngeal & Nasopharyngeal Swabs, 1 Vial + 1 NP Swab/pk 1 Oral Swab/pk, 100 pk/cs	1	100
202872	Disposable Sampler Pooling Kits, 10 mL Vial with 2 mL ITM, with Individually Wrapped and Sterile Nasopharyngeal Swabs, 1 vial + 5 swabs pool testing; 10 Vials/pk, 50 Vials/cs, 5 swabs/pk, 250 swabs/cs	1	50

# Saline Transport Medium

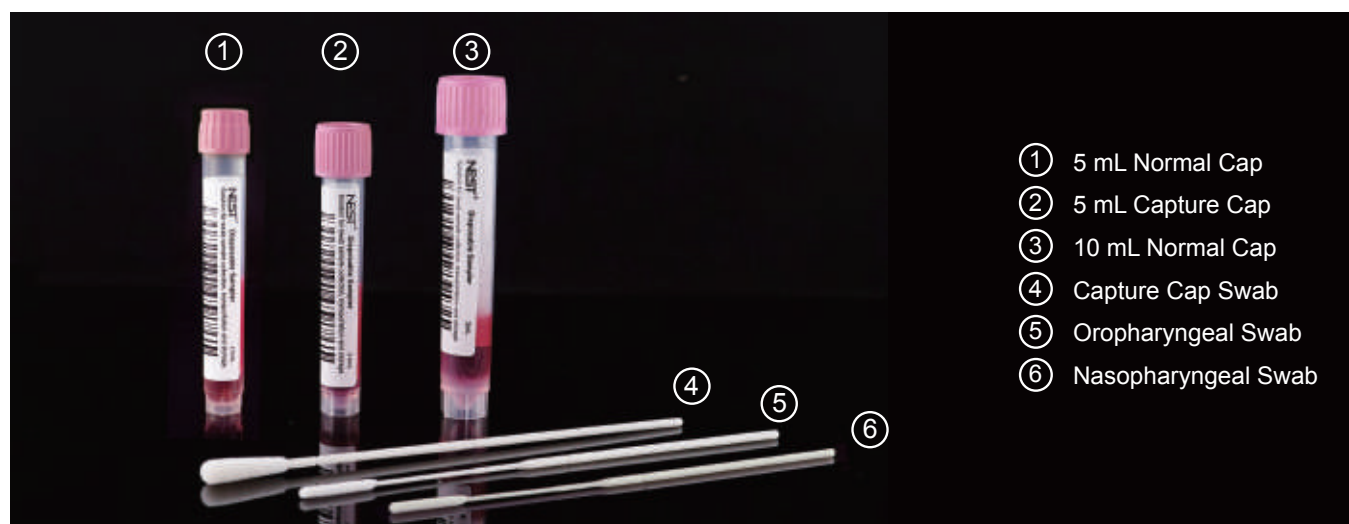


## Features

- Non-toxic, safe and effective for home collection.
- Produced according to the FDA standard.
- Room temperature for transportation and storage.
- After collection of the sample transportation requirement: room temperature within 48h.
- Used for collection, storage and transportation of viruses, chlamydia, mycoplasma and urea plasma.
- Validation: 2 x LoD (low positives) and 10 x LoD (high positives) virus samples for 56 hours ( 40 °C for 12 hours, then 32 °C for 42 hours) in this product can be detected by RT-PCR.

Cat.No.	Description	/Pack	/Case
202041	Disposable Sampler, 5 mL Vial with 1.2 mL Saline Solution, with Individually Wrapped and Sterile Oropharyngeal Swabs, 10 Vials/pk, 50 Vials + 50 Swabs/cs	10	50
202045	Disposable Sampler, 5 mL Vial with 1.2 mL Saline Solution, with Individually Wrapped and Sterile Nasopharyngeal Swabs, 10 Vials/pk, 50 Vials + 50 Swabs/cs	10	50
202042	Disposable Sampler, 5 mL Vial with 1.2 mL Saline Solution, with Individually Wrapped and Sterile Oropharyngeal Swabs, 1 Vial + 1 Oral Swab/pk, 100 pk/cs	1	100
202044	Disposable Sampler, 5 mL Vial with 1.2 mL Saline Solution, with Individually Wrapped and Sterile Nasopharyngeal Swabs, 1 Vial + 1 Oral Swab/pk, 100 pk/cs	1	100
202049	Disposable Sampler, 5 mL Vial with 1.2 mL Saline Solution, with Individually Wrapped and Sterile Oropharyngeal & Nasopharyngeal Swabs, 1 Vial + 1 NP Swab/pk 1 Oral Swab/pk, 100 pk/cs	1	100
202141	Disposable Sampler, 5 mL Vial with 1.2 mL Saline Solution, 10 Vials/pk, 100 Vials/cs	10	100
202046	Disposable Sampler, 10 mL Vial with 3 mL Saline Solution, with Individually Wrapped and Sterile Oropharyngeal Swabs, 1 Vial + 1 Oral Swab/pk, 100 pk/cs	1	100

# AMIES Transport Medium



- ① 5 mL Normal Cap
- ② 5 mL Capture Cap
- ③ 10 mL Normal Cap
- ④ Capture Cap Swab
- ⑤ Oropharyngeal Swab
- ⑥ Nasopharyngeal Swab

NEST disposable sampler (AMIES) is a collection and transport system which is used for aerobic, anaerobic and fastidious bacteria. In addition, NEST disposable sampler (AMIES) can be used for nucleic acid test of bacteria.

## Features

- Simplify specimen collection, transport and processing.
- Fewer samples need to be collected offering a more comfortable experience.
- Better preservation ability: the colony number of samples was reduced by no more than 1.5log10 after preservation for 48h.

### Transport Temperature Requirement

Before using: AMIES solution can be stored at room temperature (5 to 25 degree centigrade) for twelve months.

After using: sample could maintain viability for up to 48 hours at room or refrigerator temperature (Neisseria gonorrhoeae survival at 24 hours per CLSI standard).



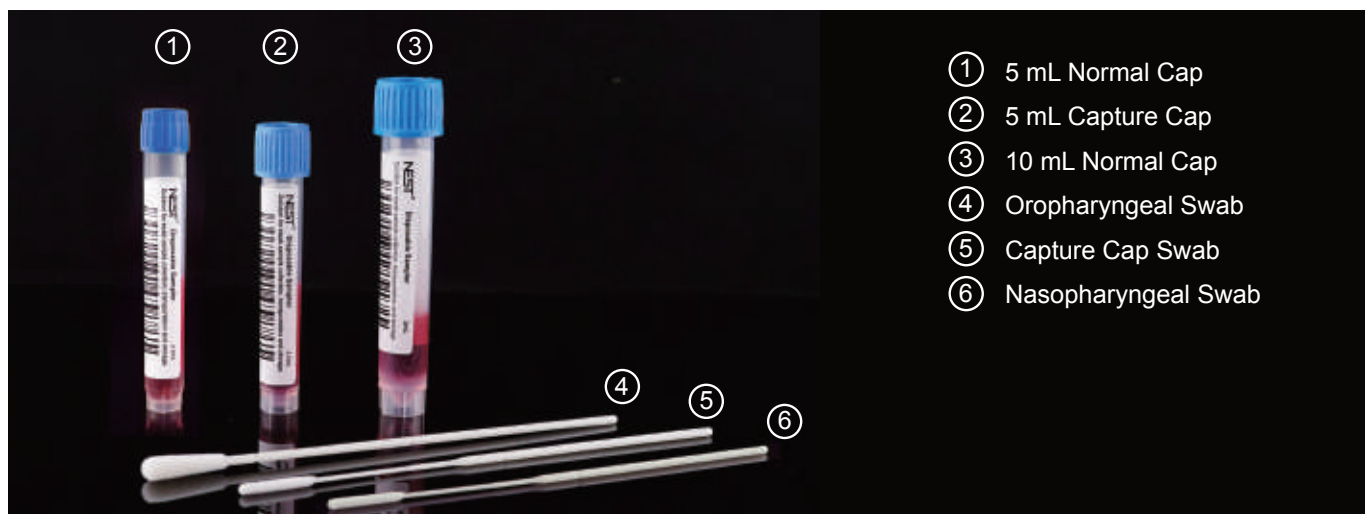
## Capture Cap & Swab

- Reducing the extra costs of stocking numerous swab types.
- Just screw the cap, the swab will be stuck onto the cap automatically without handling.

Cat.No.	Description	/Pack	/Case
202451	Disposable Sampler, 5 mL Vial with 1.2 mL ATM, with Individually Wrapped and Sterile Capture Cap Swabs, 10 Vials/pk, 50 Vials + 50 Swabs/cs	10	50
202452	Disposable Sampler, 5 mL Vial with 1.2 mL ATM, with Individually Wrapped and Sterile Capture Cap Swabs, 1 Vial + 1 Swab/pk, 100 pk/cs	1	100

Cat.No.	Description	/Pack	/Case
202051	Disposable Sampler, 5 mL Vial with 1.2 mL ATM, with Individually Wrapped and Sterile Oropharyngeal Swab, 10 Vials/pk, 50 Vials + 50 Swabs/cs	10	50
202055	Disposable Sampler, 5 mL Vial with 1.2 mL ATM, with Individually Wrapped and Sterile Nasopharyngeal Swab, 10 Vials/pk, 50 Vials + 50 Swabs/cs	10	50
202052	Disposable Sampler, 5 mL Vial with 1.2 mL ATM, with Individually Wrapped and Sterile Oropharyngeal Swabs, 1 Vial + 1 Oral Swab/pk, 100 pk/cs	1	100
202054	Disposable Sampler, 5 mL Vial with 1.2 mL ATM, with Individually Wrapped and Sterile Nasopharyngeal Swabs, 1 Vial + 1 NP Swab/pk, 100 pk/cs	1	100
202081	Disposable Sampler, 10 mL Vial with 3 mL ATM, with Individually Wrapped and Sterile Oropharyngeal Swab, 10 Vials/pk, 50 Vials + 50 Swabs/cs	10	50
202085	Disposable Sampler, 10 mL Vial with 3 mL ATM, with Individually Wrapped and Sterile Nasopharyngeal Swab, 10 Vials/pk, 50 Vials + 50 Swabs/cs	10	50
202056	Disposable Sampler, 10 mL Vial with 3 mL ATM, with Individually Wrapped and Sterile Oropharyngeal Swabs, 1 Vial + 1 Oral Swab/pk, 100 pk/cs	1	100
202057	Disposable Sampler, 10 mL Vial with 3 mL ATM, with Individually Wrapped and Sterile Nasopharyngeal Swabs, 1 Vial + 1 NP Swab/pk, 100 pk/cs	1	100

# Universal Transport Medium



- ① 5 mL Normal Cap
- ② 5 mL Capture Cap
- ③ 10 mL Normal Cap
- ④ Oropharyngeal Swab
- ⑤ Capture Cap Swab
- ⑥ Nasopharyngeal Swab

## Features

- Simplify specimen collection, transport and processing.
- Used for collection, storage and transportation of viruses, bacteria, chlamydia, mycoplasma and urea plasma. The specimen transported in the universal transport media can be used in the laboratory to perform pathogen isolation and detection.
- Disposable use.

### Transport Temperature Requirement

This product can be transported at ambient temperature. The samples collected can be stored at the temperature of 2-8 °C if transported to the laboratory within 48 hours for the subsequent examination, inoculation and sample separation. Otherwise, please store the samples at -70 °C. Please store the samples at minus 70 degrees celsius, if they cannot be transported to the laboratory within 48 hours, please examine, inoculate, or separate the sample as soon as possible after being sent to the laboratory. Those that can be inoculated or separated within 48 hours can be stored at 4 degrees Celsius. Those that cannot be inoculated or separated within 48 hours should be stored at minus 70 degrees Celsius.



## Capture Cap & Swab

- Reducing the extra costs of stocking numerous swab types.
- Just screw the cap, the swab will be stuck onto the cap automatically without handling.

Cat.No.	Description	/Pack	/Case
202421	Disposable Sampler, 5 mL Vial with 1.2 mL UTM, with Individually Wrapped and Sterile Capture Cap Swabs, 10 Vials/pk, 50 Vials + 50 Swabs/cs	10	50
202422	Disposable Sampler, 5 mL Vial with 1.2 mL UTM, with Individually Wrapped and Sterile Capture Cap Swabs, 1 Vial + 1 Swab/pk, 100 pk/cs	1	100

Cat.No.	Description	/Pack	/Case
202021	Disposable Sampler, 5 mL Vial with 1.2 mL UTM, with Individually Wrapped and Sterile Oropharyngeal Swab, 10 Vials/pk, 50 Vials + 50 Swabs/cs	10	50
202025	Disposable Sampler, 5 mL Vial with 1.2 mL UTM, with Individually Wrapped and Sterile Nasopharyngeal Swab, 10 Vials/pk, 50 Vials + 50 Swabs/cs	10	50
202022	Disposable Sampler, 5 mL Vial with 1.2 mL UTM, with Individually Wrapped and Sterile Oropharyngeal Swabs, 1 Vial + 1 Oral Swab/pk, 100 pk/cs	1	100
202024	Disposable Sampler, 5 mL Vial with 1.2 mL UTM, with Individually Wrapped and Sterile Nasopharyngeal Swabs, 1 Vial + 1 NP Swab/pk, 100 pk/cs	1	100
202028	Disposable Sampler, 10 mL Vial with 3 mL UTM, with Individually Wrapped and Sterile Oropharyngeal Swab, 10 Vials/pk, 50 Vials + 50 Swabs/cs	10	50
202029	Disposable Sampler, 10 mL Vial with 3 mL UTM, with Individually Wrapped and Sterile Nasopharyngeal Swab, 10 Vials/pk, 50 Vials + 50 Swabs/cs	10	50
202026	Disposable Sampler, 10 mL Vial with 3 mL UTM, with Individually Wrapped and Sterile Oropharyngeal Swabs, 1 Vial + 1 Oral Swab/pk, 100 pk/cs	1	100
202027	Disposable Sampler, 10 mL Vial with 3 mL UTM, with Individually Wrapped and Sterile Nasopharyngeal Swabs, 1 Vial + 1 NP Swab/pk, 100 pk/cs	1	100

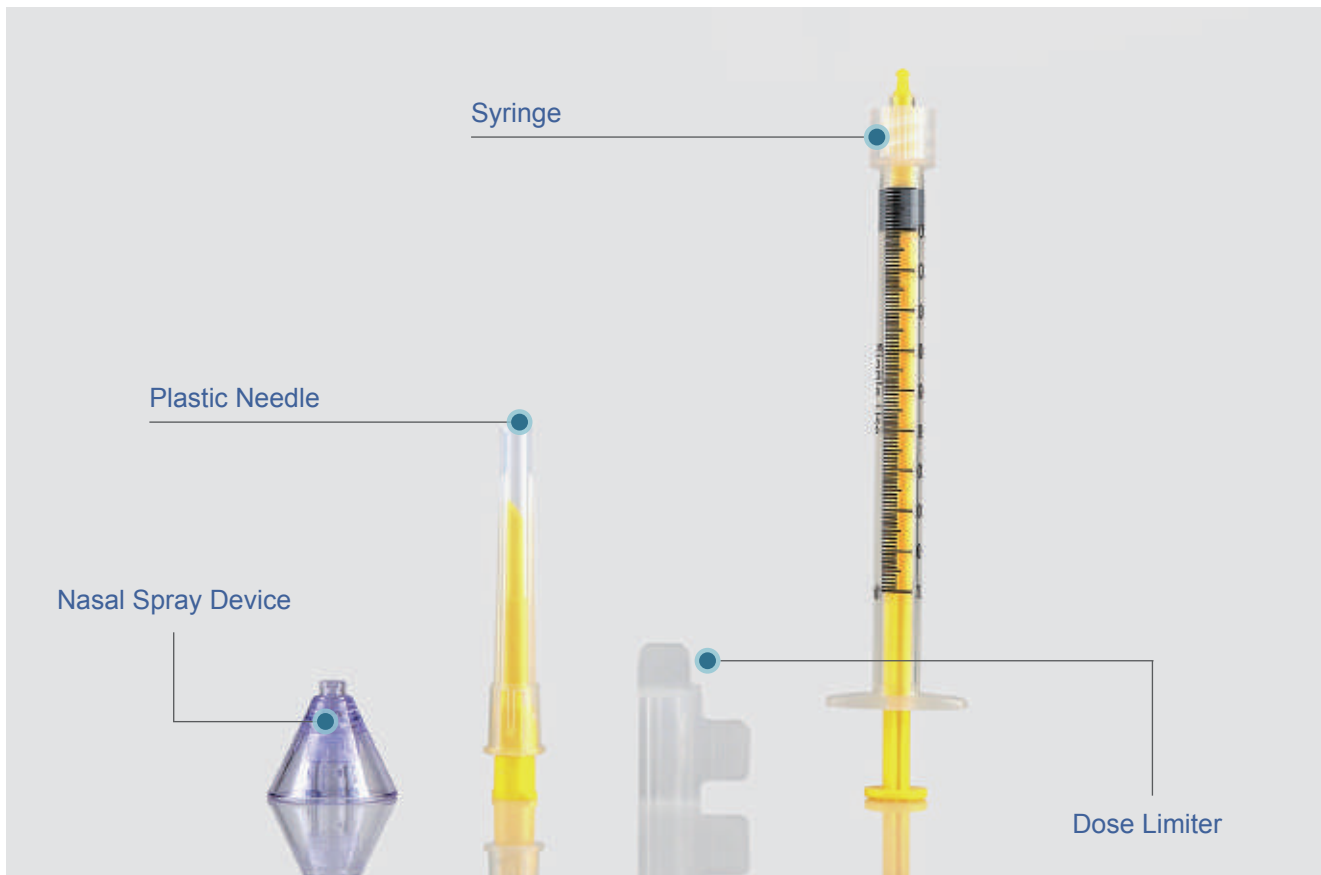


# Disposable Intranasal Atomization Device

## Product Presentation

- The device provides a painless and rapid absorption medication delivery option for non-invasive intranasal medication delivery. It improves safety for both caregivers and patients by avoiding needle-sticking injuries.
- It is an atomizing device for drug administration intended to convert liquid preparations into atomized particles and spray on the surface of human body tissues (or organs) for full contact to maximize the administration effect. Meanwhile, the reasonable and effective self-destructive structure ensures that the product can only be used once to provide users with safe and hygienic products.

## Main Components



## Product Parameters

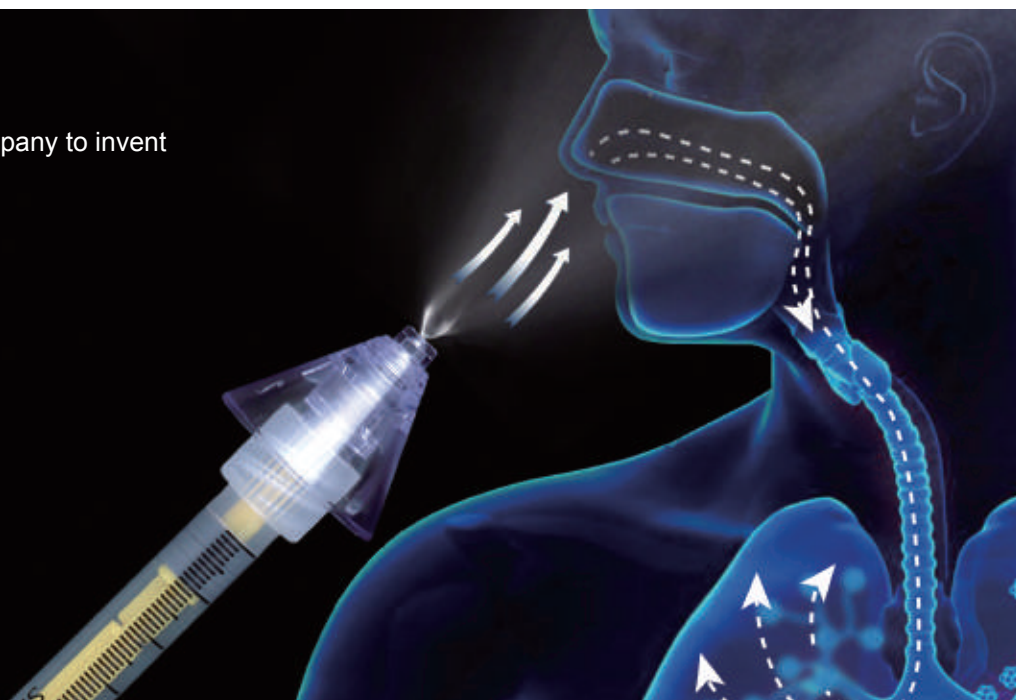
Cat.No.	Specifications	Product Description	/Pack	/Case
201003	1 mL	Disposable Intranasal Atomization Device, White, with Plastic Needle, Syringe, Nasal Spray Device, Dose Limiter, Individually Packed,	1	1000
201113	1 mL	Disposable Intranasal Atomization Device, Yellow, with Plastic Needle, Syringe, Nasal Spray Device, Dose Limiter, Individually Packed,	1	1000

# Saliva Collection Kit

## Initiative

The first Chinese company to invent this device.

Patent No.  
CN201820609059.4  
CN202020350634.0  
CN202010194009.6



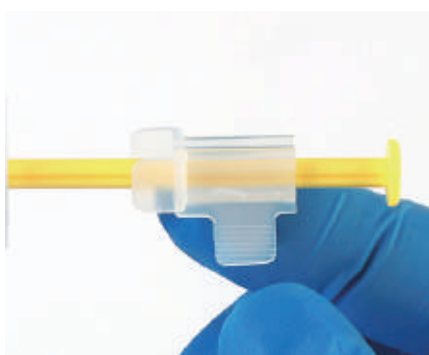
**Rapid  
Absorption**



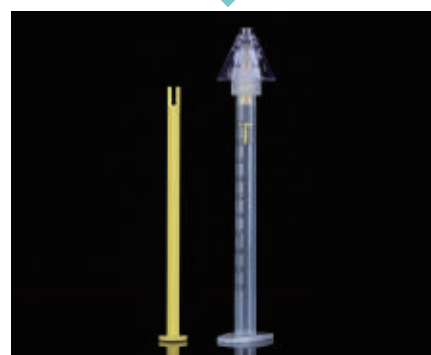
**Non-invasive  
& Painless**



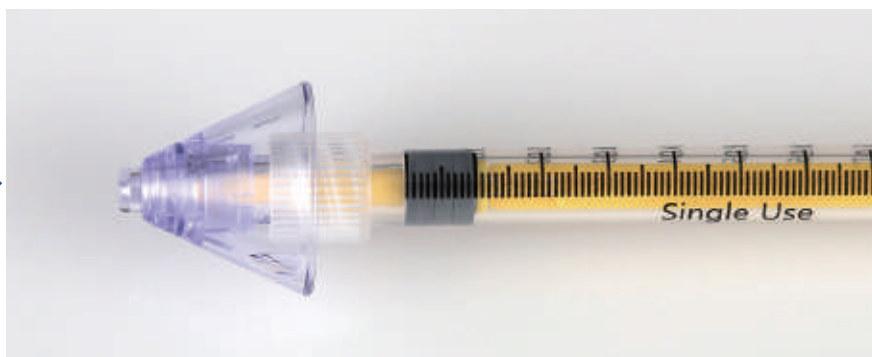
**Self-Destruct  
Device**



**Special Dose  
Limiter**



**Inoculate  
Precisely**



# Dry Saliva Collection Kit



203101



203102



203901



203111



203112

## Features

- USP VI Polypropylene Tubes.
- Collection process is painless and safe.
- The humanized design of funnel conforms to the mouth shape of human, making the collection process simple and easy.
- Good sealing performance effectively prevents leakage and specimens contamination safely and reliably, making it easy to preserve and transport specimen.
- The bottom of the collecting vial is conical, making it easy to process concentrated sample.
- Bar codes makes digital management easier, and labels with writing areas are convenient for users to record information.
- RNase/DNase free, non-pyrogenic.

Cat.No.	Description	/Pack	/Case
203901	Wedge in Funnels, compatible with different tube diameters ranging from 9.5-20.0 mm, Individually Wrapped, 100pcs/case	1	100
203101	Dry Saliva Collection Kit, Each Kit Includes a 5 mL Vial with a Screw Funnel, a Cap and a Specimen Bag, Sterile Pack, 100 kits/case	1	100
203102	Dry Saliva Collection Kit, Each Kit Includes a 10 mL Vial with a Screw Funnel, a Cap and a Specimen Bag, Sterile Pack, 100 kits/case	1	100
203111	Dry Saliva Collection Kit, Each Kit Includes a 5 mL Vial with a Wedged Funnel, a Cap and a Specimen Bag, Sterile Pack, 100 kits/case	1	100
203112	Dry Saliva Collection Kit, Each Kit Includes a 10 mL Vial with a Wedged Funnel, a Cap and a Specimen Bag, Sterile Pack, 100 kits/case	1	100

# Saliva Collection Kit



## Features

- Applied at room temperature.
- The 5 mL preservation solution vial is filled with 2 mL ITM solution.
- Samples can be stored and transported at room temperature.
- DNA samples can be stored stably for 12 months.
- RNA samples can be stored steadily for 1 month.
- With good antibacterial performance and strong storage stability, the preservation solution can guarantee the integrity of viral nucleic acids in the sample if it is used to store inactivated viral samples.

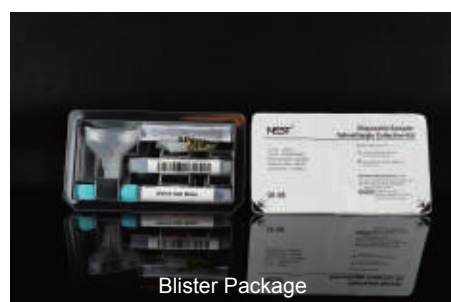
## Introduction

- The product is used to collect high-quality DNA/RNA samples in the saliva.
- The collection process is painless and won't cause any injury or discomfort to the human body.
- The collected samples can be used for various biological experiments such as enzymatic hydrolysis, PCR and next-generation sequencing and are widely used in the collection and preservation of specimens in hospitals, scientific research institutions and households.

Cat.No.	Description	/Pack	/Case
203012	Disposable Sampler, Saliva Collection Kit with ITM, each kit Includes a 10 mL Vial with a funnel, a separate 5 mL Vial filled with 2.0 mL ITM, Sterile Pack, 100 kits/case	1	100



# Saliva/gargle Collection Kit



## Introduction

The disposable sampler saliva/gargle collection kit is intended for the collection and transport of clinical samples from the collection site to the testing laboratory. As it will not cause any discomfort to the collection object, it is easy to be accepted. Both saliva and gargling method will be presented in this IFU either method is at your choice. This product is easy to carry and operate.

## Features

- Applied at normal ambient temperature.
- The kit process is simple, convenient and easy to operate.
- Flexible to use, can be easily collected in the laboratory, clinic, or even at home.
- It is suitable for a wide range of target group, especially for children and patients who do not meet the blood sample collection conditions.
- The non-invasive collection of samples will not cause any discomfort to the collection objects, reducing the chance of infection and improving safety.

Cat.No.	Description	/Pack	/Case
203051	Disposable Sampler, Saliva/Gargle Collection Kit, each kit Includes a funnel, an empty 5mL vial, a 5 mL Vial Filled with 4.0 mL saline, Sterile, Paper Box Package, 100 kits/case	1	100
203061	Disposable Sampler, Saliva/Gargle Collection Kit, each kit Includes a funnel, an empty 5mL vial, a 5 mL Vial Filled with 4.0 mL saline, Sterile, PE Bag Package, 100 kits/case	1	100
203071	Disposable Sampler, Saliva/Gargle Collection Kit, each kit Includes a funnel, an empty 5mL vial, a 5 mL Vial Filled with 4.0 mL saline, Sterile, Blister Package, 100 kits/case	1	100

# Pharmaceutical Packaging



# Pen Injector

prior *Acufocus*



## Product advantages

### • Elite team

Prior has personnel of 5 R&D experts, among which 3 have accepted postgraduate or higher education.

### • Equipment guarantee

Not only the company has introduced Germany Roedeers processing center, TACHIBANA, MITSUI's grinding machine, Mitsubishi's wire-electrode cutting devices and many other precise production devices into its production center, but also it has invested 150 million to establish 100,000 class purification workshop, sterile laboratory and automatic production line.

### • Mold injection

Based on years' experiences of precise injection mold and die casting mold design and manufacture, various molds of high precision and complex structures as well as the required accessories can be manufactured, which is a tribute to our strong production capacity.

### • Support for targeted development of OEM&ODM

"Order place-design-mold development-product parts production-finished product assembly-function validation-product delivery", the whole process can be completed with high quality and efficiency within the company.

## Features

### Enlarged view window

Adjust enlarge the window, making scale reading more easily.

### Convenient to carry

Small and delicate package, easy to carry.

### Two-way adjustment

Bidirectional adjustment  
Dose setting device can be bidirectionally adjusted; The scale can be reset if excessive dose occurred.

### Precise Injection

Injection screw with high precision guarantees stable injection process rid of many precision errors; injection increment 1 IU, adjustable dose range 1 IU - 60 IU.

### Smooth injection process

The transmission mechanism is completely made of special materials with self-lubrication, and the injection process is smoother with the pressure of about 30N.

### Durable in use

High precision maintained after a long service period.

### Easy to operate

No need for professional guidance, it can be easily mastered at the first use.

### High compatibility

Compatible with many kinds of injector needles and medical bin on the market, makes it easy to switch.

### Wide application fields

Growth hormone, insulin, antibiotics, interferon, beauty products, biochemical emergency prevention, hemostatic pain, First aid for heart disease, detoxification, antipyretic analgesic, Anesthetic sedative class, etc..

# Pen Injector

## Company brands—Acufocus

Relying on our powerful R&D team, precise devices and complete management system, Prior can ensure that the whole process of “order place-design-mold development-product parts production-finished product assembly-function validation-product delivery” is effectively completed within the company with high quality. Acufocus' pen-type injector is a product developed by Wuxi Prior Medical Science & Technology Co., Ltd. During the process of design, our main focuses are attached on accuracy, convenience and originality, whose combined initial letters combined together to form the brand name.

As the common device, our injection pen can still maintain high precision after long time application which shows the high quality. In Chinese words “Acufocus” has the same pronunciation with the words of accurate, which shows our product is accurate even after long time application.

In addition, our company is making continuous efforts to provide a more precise and safer injector and to establish “Acufocus” as a leading brand in international market.



Premium package



PE bag package



Premium package	P100001	PE bag package	P100011
Packing	1 pcs/pk, 25 pk/cs	1 pcs/pk, 120 pk/cs	
Product name	0-60 IU Reusable Pen Injector   Plastic   Blue		
Product specification	163 mm		
Scope of injection	0-60 unit (0.6 mL )		
Minimum single dose	1 unit (0.01 mL)		
Scope of application	It is applicable to various disposable injection needles: such as BD, JERRY injection needles and so on. The injection needles shall meet ISO 11608-2 standard. It can be used to inject the medicine packed in standard 3ml cartridge bottle: The core of the injection pen used to inject cartridge bottle medicine shall meet ISO 11608-3 standard.		



Premium package	P110002	PE bag package	P110012
Packing	1 pcs/pk, 25 pk/cs	1 pcs/pk, 120 pk/cs	
Product name	0-60 IU Reusable Pen Injector  Aluminium Alloy  Blue		
Product specification	163 mm		
Scope of injection	0-60 unit (0.6 mL )		
Minimum single dose	1 unit (0.01 mL)		
Scope of application	It is applicable to various disposable injection needles: such as BD, JERRY injection needles and so on. The injection needles shall meet ISO 11608-2 standard. It can be used to inject the medicine packed in standard 3ml cartridge bottle: The core of the injection pen used to inject cartridge bottle medicine shall meet ISO 11608-3 standard.		



# Pen Injector



Premium package	P110102	PE bag package	P110112
Packing	1 pcs/pk, 25 pk/cs	1 pcs/pk, 120 pk/cs	
Product name	0-60 IU Reusable Pen Injector  Aluminium Alloy  Red		
Product specification	163 mm		
Scope of injection	0-60 unit (0.6 mL )		
Minimum single dose	1 unit (0.01 mL)		
Scope of application	<p>It is applicable to various disposable injection needles: such as BD, JERRY injection needles and so on. The injection needles shall meet ISO 11608-2 standard.</p> <p>It can be used to inject the medicine packed in standard 3ml cartridge bottle: The core of the injection pen used to inject cartridge bottle medicine shall meet ISO 11608-3 standard.</p>		



Premium package	P110202	PE bag package	P110212
Packing	1 pcs/pk, 25 pk/cs	1 pcs/pk, 120 pk/cs	
Product name	0-60 IU Reusable Pen Injector  Aluminium Alloy  Silver		
Product specification	163 mm		
Scope of injection	0-60 unit (0.6 mL )		
Minimum single dose	1 unit (0.01 mL)		
Scope of application	<p>It is applicable to various disposable injection needles: such as BD, JERRY injection needles and so on. The injection needles shall meet ISO 11608-2 standard.</p> <p>It can be used to inject the medicine packed in standard 3ml cartridge bottle: The core of the injection pen used to inject cartridge bottle medicine shall meet ISO 11608-3 standard.</p>		



Premium package	P110302	PE bag package	P110312
Packing	1 pcs/pk, 25 pk/cs	1 pcs/pk, 120 pk/cs	
Product name	0-60 IU Reusable Pen Injector  Aluminium Alloy  Black		
Product specification	163 mm		
Scope of injection	0-60 unit (0.6 mL )		
Minimum single dose	1 unit (0.01 mL)		
Scope of application	<p>It is applicable to various disposable injection needles: such as BD, JERRY injection needles and so on. The injection needles shall meet ISO 11608-2 standard.</p> <p>It can be used to inject the medicine packed in standard 3ml cartridge bottle: The core of the injection pen used to inject cartridge bottle medicine shall meet ISO 11608-3 standard.</p>		

# AccureVial™ COP Bottle



## Product introduction

The main raw material for NEST AccureVial™ COP Bottle is cyclic olefin copolymer (COP). As a substitute for borosilicate glass, COP has the characteristics of high transparency, high rigidity, high heat resistance, low refractive index, low protein adsorption, and drug compatibility test producing no flake. The applicable temperature range of the bottle body is 121 °C ~ -196 °C.

NEST AccureVial™ COP Bottle is featured with good steam tightness and resistance against acid, alkali and abrasion. This product is sterilized by electron beam and can be directly used for prefilling of injection solution, freeze-dried powder and other kinds of drugs and easy to be stored and transported.

## Product features



### Certified quality

COP raw materials meet USP Class VI standards and products are 100% fully inspected. Production and packaging are carried out in a GMP standard workshop which conforms to ISO 9001 and ISO 15378 standards.



### Precision detection

Relying on imported injection molding equipment and sophisticated testing instruments, the precise size and optimized appearance are obtained to ensure the high quality of the products.



### Easy to use

Sterilized by E-beam, SAL=10<sup>-6</sup>, Non-Pyrogenic, Can be directly applied to prefilling



### Tailor-made for customers

Various specifications are available, customers can choose according to the required specifications. Special packaging customization is also available.

## Applications

NEST AccureVial™ COP Bottle is mainly used in the packaging of highly stable complex molecules and sensitive drugs, such as anti-cancer, anti-tumor, cardiovascular and cerebrovascular biological reagents, which usually have high added value. For drugs or high protein content drugs with PH value greater than 9, NEST Penicillin COP Bottle is suitable for packaging and transportation.

Cat.No.	Description	/Pack	/Case
207001	5 mL AccureVial™ COP Bottle	1	10

# Reagent Products Collections



# Fast Multiplex RT-PCR Kit

## Introduction

The Kit provides a convenient format for highly sensitive and specific RT-PCR using any RNA. The kit contains specific reagents for multiplex RT-qPCR using the probe method (TaqMan, etc.). It is easy to operate and does not need to open the lid during the reaction process, avoiding cross-contamination between samples and improving the detection sensitivity. This kit employs high-quality reverse transcriptase and hot-start Taq DNA polymerases, as well as our company's optimized reaction system to greatly improve the amplification performance and specificity of the reaction and it also has high amplification uniformity to effectively complete multiplex RT-qPCR. Multi RT Enzyme Mix contains both reverse transcriptase and Taq enzymes. It can be used for multiplex detection of DNA/RNA molecules and other fields.

## Features

- Efficient amplification reaction: Taq enzyme with excellent performance; reverse transcriptase and RNAase inhibitors ensure the high reaction efficiency.
- Simple and fast operation due to the bi-component product format, with errors greatly reduced.
- Complex templates solved: Good amplification effect even for RNA templates with high GC content and complex secondary structure.
- Good compatibility: highly applicable to different sample types of RNA templates.
- Wide application range: suitable for detections from one-stop qRT-PCR reaction assay to Quadruple RT-PCR assay.

## Shipping and Storage Conditions

The kit needs to be transported frozen and the components of the kit should be stored away from light under -18°C

## Order Information

Product Code 210101  
Specification 50 reactions/kit 4 kit/case



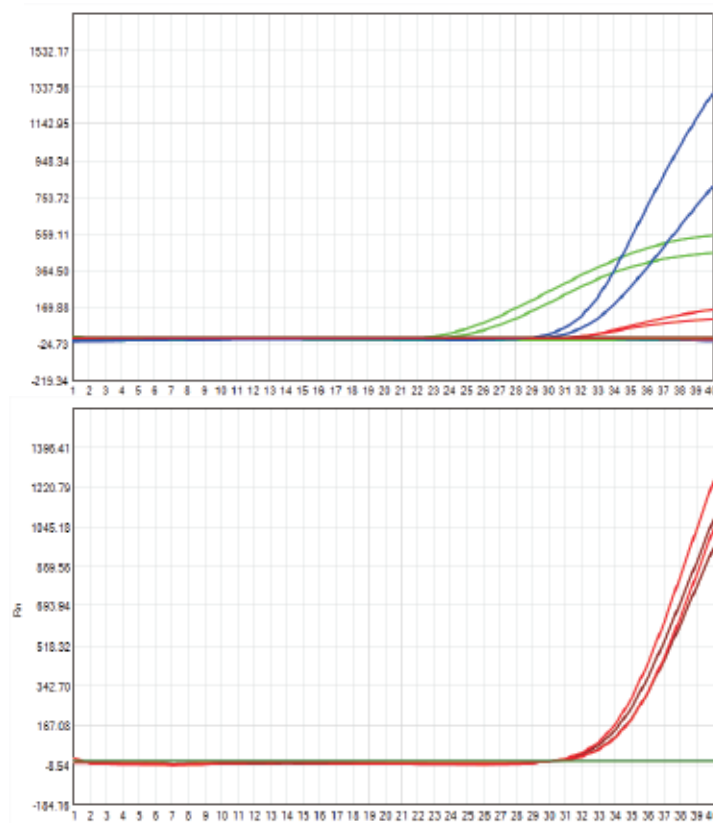
Product composition	50 Reactions
2.5×qPCR Mix	500 µL
Multi RT enzyme Mix	50 µL

## Case Study

2.5×RT-qPCR Mix (multiplex-probe method) and a competitive product were applied simultaneously in a Single-channel and a Triple-channel Assay on the same RNA sample. The performance of 2.5×RT-qPCR Mix was consistent with that of the competitive product.

- NEST Fast Multiplex RT-PCR Kit
- Competitive Product

Fig.1: The results of Single-channel Assay compared with competitive product (repeated twice).



- ①③⑤ NEST Fast Multiplex RT-PCR Kit
- ②④⑥① Competitive Product

Fig.2: The results of Triple-channel Assay compared with competitive product (Blue: FAM, Green: HEX, Red: CYS)



# Fast Multiplex PCR Kit



## Introduction

The kit is suitable for real-time PCR analysis of DNA sample based on TaqMan probe. TaqMan qPCR is characterized by high sensitivity and specificity. The universal nucleic amplification kit can be used for single or multiplex probe fluorescence quantitative PCR detection.

## Features

- Efficient amplification reaction: Taq enzymes with excellent performance, high sensitivity and specificity ensures high reaction efficiency.
- Simple and fast operation due to the bi-component product format, with operational errors greatly reduced.
- Good compatibility: highly applicable to different sample types of DNA templates.
- Wide application range: suitable for detections from one-stop qRT-PCR reaction assay to Quadruple RT-PCR assay.

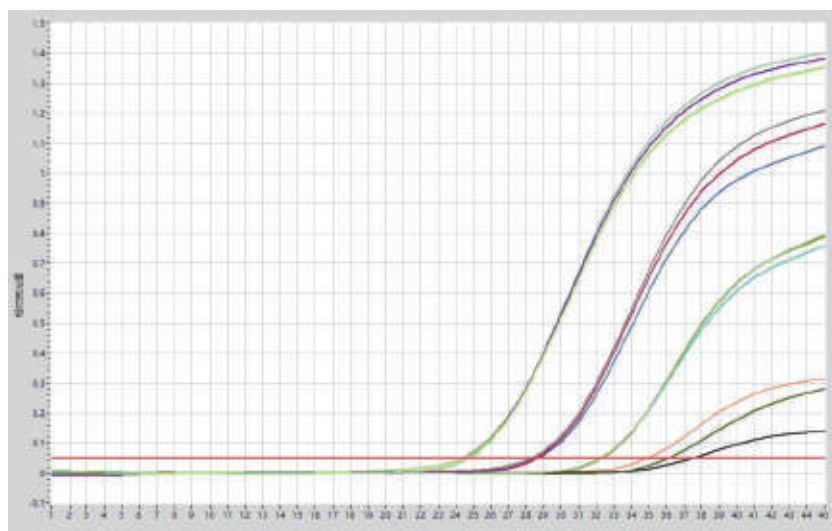
## Shipping and Storage Conditions

The kit needs to be transported frozen and the components of the kit should be stored away from light under  $-18^{\circ}\text{C}$ .

## Order Information

Product Code 210201  
Specification 50 reactions/kit 6 kit/case

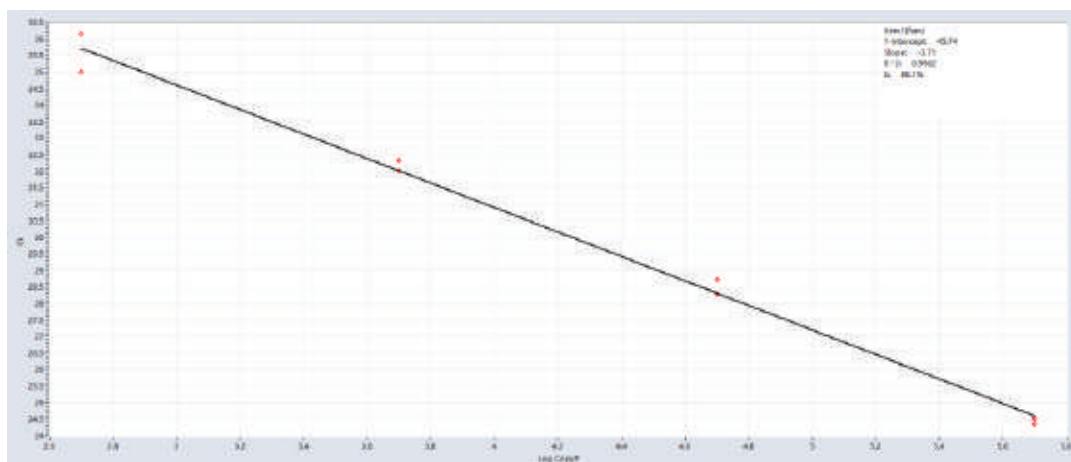
Product composition	50 Reactions
2.5×qPCR Mix	500 $\mu\text{L}$
Taq enzyme	25 $\mu\text{L}$



## Case Study

Dilute the same DNA sample with Fast Multiplex PCR Kit at four dilution gradients of  $10^{-1}$ ,  $10^{-2}$ ,  $10^{-3}$ , and  $10^{-4}$  respectively. The standard curve of the results ( $R^2=0.9962$ ) was good. Relative Fluorescence Unit

The results of the same DNA sample after gradient dilutions



# Bst LAMP MasterMix (with SYTO-9)

## Introduction

Loop-mediated isothermal amplification (LAMP) is a nucleic acid amplification technique widely used in the detection of target nucleic acid. The kit provides a simple solution suitable for LAMP assay for DNA detection. LAMP is a common isothermal amplification technique, which uses LAMP-specific primers (prepared by user) and strand displacement polymerase to rapidly detect the target nucleic acid. The kit contains 2.5×LAMP Mix and Bst DNA polymerase, in which the 2.5×LAMP Mix contains reaction buffer, fluorescent dye, Mg<sup>2+</sup>, dNTPs, etc., and is used with fluorescence quantitative PCR instrument or thermostatic fluorescence detector. When used, only primers and templates need to be added for nucleic acid isothermal amplification.

## Features

- Bst enzymes with high performance ensure high reaction efficiency and specificity.
- Simple and fast operations due to the bi-component product form, with operational errors greatly reduced.
- Highly applicable to DNA templates of different sample types.

## Shipping and Storage Conditions

The kit needs to be transported frozen and the components of the kit should be stored away from light under -18°C.

## Order Information

Product Code 210501  
Specification 50 reactions



Product composition	50 Reactions
2.5×LAMP Mix	500 μL
Bst DNA polymerase	50 μL

# RT-Bst LAMP MasterMix (with SYTO-9)

## Introduction

Loop-mediated isothermal amplification (LAMP) is a nucleic acid amplification technique widely used in the detection of target nucleic acid. The kit provides a simple solution for LAMP and RT-LAMP assays for DNA and RNA detection. LAMP and RT-LAMP are common isothermal amplification techniques, which use LAMP-specific primers (provided by user) and strand displacement polymerase to rapidly detect target nucleic acid. The kit contains 2.5×LAMP Mix and RT-LAMP enzyme Mix, in which the 2.5×LAMP Mix contains reaction buffer, fluorescent dye, Mg<sup>2+</sup>, dNTPs, etc., and is used together with fluorescence quantitative PCR instrument or thermostatic fluorescence detector. When used, only primers and templates need to be added for nucleic acid isothermal amplification.

## Features

- Efficient amplification reaction: Taq enzymes with excellent performance and reverse transcriptase ensure high reaction efficiency.
- Simple and fast operation due to the bi-component product form, with operational errors greatly reduced.
- Good compatibility: highly applicable to RNA templates of different sample types.

## Shipping and Storage Conditions

The kit needs to be transported frozen and the components of the kit should be stored away from light under -18°C.

## Order Information

Product Code 210701  
Specification 50 reactions



Product composition	50 Reactions
2.5×LAMP Mix	500 μL
RT-LAMP enzyme Mix	50 μL

# Magnetic Blood Spots Genomic DNA Isolation Kit



Kit Composition	Content
Buffer DBL	15 mL/vial
Buffer BLL	15 mL/vial
Proteinase K	1.04 mL/ vial
Suspension BLM	0.6 mL/ vial
Buffer WA	23 mL/vial
Buffer WB	18 mL/vial
Buffer TE	7 mL/vial

## Introduction

This kit is suitable for isolation of purified high-quality genomic DNA from dried blood spot samples. The kit uses a magnetic bead and buffer system with a unique isolation function. The surface of the magnetic bead is modified with special chemical groups, which have extremely strong enrichment ability for genomic DNA under certain conditions and can reversibly release genomic DNA when the conditions are changed, to rapidly separate and purify genomic DNA, and to remove impurities like proteins as far as possible. The genomic DNA extracted by this kit can be widely used for various routine operations, such as enzyme digestion, fluorescent quantitative PCR, library construction, Southern blotting, chip detection and other experiments.

## Features

- Specially designed for direct genomic DNA Extraction from dried blood spots.
- Simple and rapid with ultra-pure genomic DNA extracted within 1 h.
- Unique lysis and binding system for purified DNA with high concentration, high purity and integrity, etc. in accordance with the requirements of chip hybridization and high-throughput sequencing.
- Uniquely encapsulated magnetic beads for a high affinity for nucleic acids.
- Safe and non-toxic without phenol/chloroform involved.

## Shipping and Storage Conditions

Transport at room temperature, store at room temperature away from light.

## Order Information

Product Code 208401  
Specification 50 reactions

# Magnetic Cell-Free DNA Midi Kit



Kit Composition	Content
Buffer CFL	6 mL/vial
Buffer CFB	120 mL/ vial
Proteinase K	11 mL/vial
Magnetic beads	1.6 mL/ vial
Buffer CFW1	16 mL/vial
Buffer CFW2	15 mL/vial
Buffer TE	7 mL/vial

## Introduction

This kit is used for extraction of circulating cell-free DNA (cfDNA) from serum/plasma samples. The kit uses a magnetic bead and buffer system with a unique isolation function. The surface of the magnetic bead is modified with special chemical groups, which have extremely strong enrichment ability for DNA under certain conditions and can reversibly release DNA when the conditions are changed, so as to rapidly separate and purify DNA, and to remove impurities like proteins as far as possible. The cfDNA isolated and purified by this kit can be directly used as PCR templates or for hybridization and other molecular biology experiments.

## Features

- Uniquely encapsulated magnetic beads for a high affinity for nucleic acids. Safe and non-toxic without phenol/chloroform involved.
- Flexibly accommodate 1000  $\mu$ L - 5 mL original sample volume of plasma or serum.
- Compatible with molecular biology techniques, including Next Generation Sequencing (NGS), qPCR, ddPCR and other amplification and genotyping applications
- The eluting volume is 15-100  $\mu$ L.

## Shipping and Storage Conditions

Transport at room temperature, store at room temperature away from light.

## Order Information

Product Code 208301  
Specification 50 reactions

# Magnetic Pathogens Nucleic Acid (DNA/RNA) Isolation Kit

## Introduction

The kit is used to extract pathogenic microorganism genomic DNA/RNA from serum, plasma, cultured cells, saliva, alveolar lavage fluid, nasopharyngeal aspirate and swab samples. The kit uses a magnetic bead and buffer system with a unique isolation function. The surface of the magnetic bead is modified with special chemical groups, which have extremely strong enrichment ability for DNA/RNA under certain conditions and can reversibly release DNA/RNA when the conditions are changed to rapidly separate and purify DNA/RNA and to remove impurities like proteins as far as possible. The DNA/ RNA extracted by this kit can be widely used for various downstream molecular biological experiments, including enzyme digestion, fluorescent quantitative PCR, library construction, Southern blotting, chip detection, high throughput sequencing and other experiments.

## Features

- For a wide range of sample types including serum, plasma, cultured cells, saliva, alveolar lavage fluid, nasopharyngeal aspirate and swab samples, etc..
- Specially designed for pathogenic micro-organisms genomic nucleic acids (DNA/RNA) extraction.
- Uniquely encapsulated magnetic beads for a high affinity for nucleic acids.
- Safe and non-toxic without phenol/chloroform associated;
- Compatible with automation equipment.

## Shipping and Storage Conditions

Transport at room temperature; store at room temperature away from light.

## Order Information

Product Code 208601  
Specification 50 reactions



Kit Composition	Content
Buffer L	11 mL/vial
Proteinase K	1.04 mL/vial
Magnetic beads	1.1 mL/vial
Buffer WA	23 mL/vial
Buffer WB	18 mL/vial
Buffer TE	7 mL/vial

# Magnetic Blood Genomic DNA Isolation Kit

## Introduction

This kit is suitable for isolation of purified high-quality genomic DNA from blood samples. The kit uses a magnetic bead and buffer system with a unique isolation function. The surface of the magnetic bead is modified with special chemical groups, which have extremely strong enrichment ability for genomic DNA under certain conditions and can reversibly release genomic DNA when the conditions are changed, to rapidly separate and purify genomic DNA, and to remove impurities like proteins as far as possible. The genomic DNA extracted by this kit can be widely used for various routine operations, such as enzyme digestion, fluorescent quantitative PCR, library construction, Southern blotting, chip detection and other experiments.

## Features

- No need to lyse red blood cells, operation process simplified.
- Uniquely encapsulated magnetic beads for a high affinity for nucleic acids.
- Safe and non-toxic without phenol/chloroform involved.

## Shipping and Storage Conditions

Transport at room temperature, store at room temperature away from light.

## Order Information

Product Code 208501  
Specification 50 reactions



Component	Content
Buffer BLL	15 mL/vial
Proteinase K	1.04 mL/ vial
Suspension BLM	0.6 mL/ vial
Buffer WA	23 mL/vial
Buffer WB	18 mL/vial
Buffer TE	7 mL/vial



# Animal Tissue Total RNA Purification Kit (Spin Column)



## Introduction

The Total RNA Extraction Kit for Animal Tissue / Cell (hereinafter referred to as the "Product") adopts a unique lysis-buffer system without the application of  $\beta$ -mercaptoethanol, Dithiothreitol (DTT) or other toxic reagents, which can effectively extract total RNA from various animal tissues or cells. The centrifugal spin columns adopt silica as a substrate material, which enables the centrifugal spin columns to efficiently adsorb RNA and remove impurity proteins and other organic compounds from cells. Therefore, the extracted total RNA has high yield, and sound purity, with stable and reliable quality, which can be used for various downstream experiments such as RT-PCR, Real Time RT-PCR and molecular cloning.

## Features

- Fast and easy RNA extraction operation especially from animal tissue/cell samples within 40 min.
- High RNA yield, good purity and no impurity residue, especially suitable for downstream experiments with high purity requirements
- Safe and low toxicity without  $\beta$ -mercaptoethanol, DTT, chloroform, phenol and other toxic reagents involved.

## Shipping and Storage Conditions

Transported at room temperature and stored at room temperature away from light. The shelf life is 12 months.

## Order Information

Product Code 208111  
Packing Specification 50 reactions

Component	Content
Buffer ZRL	22 mL/vial
Buffer WA	23 mL/vial
Buffer WB	14 mL/vial
RNase-Free ddH <sub>2</sub> O	7 mL/vial
Proteinase K	1.04 mL/tube
Spin Column	50 pieces/bag
Collection tube	50 pieces/bag

# Animal Tissue Genomic DNA Purification Kit (Spin Column)



## Introduction

This Kit can effectively extract the genomic DNA from various animal tissues with the centrifugal spin column capable of specially binding DNA and the unique lysis-buffer system. The silicon matrix material in the centrifugal spin column can absorb DNA with high efficiency and specificity and effectively remove impurity proteins and other organic compounds in cells. Thus, the genomic DNA extracted is large in segment, high in purity and stable and reliable in quality.

DNA extracted with this kit is suitable for all regular operations, including but not limited to enzyme cutting, PCR, library construction, and Southern blot experiment.

## Features

- Rapid purification for high quality genomic DNA.
- Good reproducibility and high yield of extracted nucleic acids.
- Effectively remove contaminants and inhibitors for downstream applications.

## Shipping and Storage Conditions

The kit should be transported at normal temperature and stored away from light at room temperature.

## Order Information

Product code 208701  
Specification 50 reactions

Product composition	Content
Buffer ZA	21mL/vial
Buffer ZB	8 mL/vial
Buffer WA	17.8 mL/vial
Buffer WB	14 mL/vial
Buffer TE	5.2 mL/vial
Proteinase K	1.04 mL/tube
Spin Column	50 pieces/bag
Collection tube	50 pieces/bag

# Bacteria Genomic DNA Kit (Spin Column)

## Introduction

The kit can be used to extract genome DNA from Gram-negative and Gram-positive bacteria. With the purification technology of silica membrane, the kit avoids the application of such toxic agents as phenol and chloroform and can eliminate RNA, impure protein, lipid and other inhibiting impurities to the maximum extent. Genome DNA extracted by the kit has a large segment, high degree of purity and stable quality and can be applied to digestion, PCR, library construction, Southern hybridization and other experiments.

## Features

- **Fast**— high quality genomic DNA extracted from Gram-negative bacteria within 1 hour.
- **Efficient**— Lysozyme and glass beads coordinate to break the wall efficiently.
- **Stable**— Extracted DNA can be directly used for PCR, enzyme digestion, hybridization and other molecular biology experiments.

## Application

- Gram-negative genomic DNA extraction.
- Gram-positive genomic DNA extraction.

## Shipping and Storage Conditions

The kit should be transported at normal temperature and stored away from light at room temperature.

## Order Information

Product code 208121  
Specification 50 reactions



Product composition	Content
Buffer BAL	12 mL/vial
Buffer BAB	12 mL/vial
Buffer WA	23 mL/vial
Buffer CFW2	15 mL/vial
Buffer TE	7 mL/vial
Proteinase K	1.04 mL/tube
Glass Beads B	2 g/tube
Spin Column NP 20	50 pieces/bag
Collection tube	50 pieces/bag

# Gel Extraction Kit

## Introduction

This kit is suitable for recovering 100bp - 10kb DNA fragments from TAE and TBE agarose gels, with a recovery rate of up to 80%. This kit uses a special adsorption membrane, which can selectively adsorb nucleic acid molecules and remove other impurities to obtain high-quality DNA recovery. The obtained DNA can be directly used for enzyme digestion, ligation, sequencing and other subsequent molecular biological tests.

## Features

- Recovery rate of nucleic acid above 100bp is more than 80%.
- Effectively remove protein, organic compounds, inorganic salt ions and other impurities.
- Easy to operate, only 20 minutes or so throughout the whole operation.
- The minimum elution volume can be as low as 20  $\mu$ L with high elution efficiency.

## Shipping and Storage Conditions

Store at 2-25°C.

## Order Information

Product Code 208201  
Specification 50 reactions



Component	Content	Amount
Buffer GPL3	30 mL/vial	1 vial
Buffer GPW1	12 mL/vial	1 vial
Buffer TE	5 mL/vial	1 vial
Spin Column	50 pcs/kit	50 pcs
Collection tube (2mL)	50 pcs/kit	50 pcs

# Bacteria Total RNA Purification Kit (Spin Column)



Product composition	Content
Buffer TE	15 mL/vial
Proteinase K	1.04 mL/tube
Buffer BARB	20 mL/vial
Buffer BARW	36 mL/vial
Buffer CFW2	12 mL/vial
RNase-Free Water	7 mL/vial
Spin Column NP20	50 pieces/bag
Collection tube	50 pieces/bag

## Introduction

The kit can be used to extract total RNA from cultured Gram-negative and Gram-positive bacteria. With the purification technology of silica membrane, the kit can complete extraction in 30-40 mins, avoid the application of phenol, chloroform and toxic agents, and eliminate DNA, impure protein and other impurities to the maximum extent. The kit is applicable to multiple downstream experiments such as RT-qPCR, chip analysis, Northern Blot, Dot Blot, PolyA filtration, in vitro translation, RNase protection analysis and molecular clone.

## Features

- Safe: no phenol, chloroform and other organic extracts.
- Efficient: high quality RNA obtained within 30-40 min.
- Stable: the extracted RNA can be used for RT-qPCR, microarray analysis, molecular cloning and other various downstream experiments.

## Application

- Gram-negative bacteria total RNA extraction.
- Gram-positive bacteria total RNA extraction.

## Shipping and Storage Conditions

Transported at room temperature and stored at room temperature away from light. The shelf life is 12 months.

## Order Information

Product Code 208141  
Specification 50 reactions

# DNA/RNA Stabilizer

## Introduction

This product is used for the preservation of nucleic acids (DNA and RNA), which can be used for the preservation of nucleic acids of pathogens such as bacteria, viruses, mycoplasma and fungi in samples, and also for the preservation of RNA and DNA in animal and plant tissues.

## Features

- Rapidly inactivates RNA enzymes and stabilizes RNA in tissues or cells.
- Samples preserved in RNA Sample Preservation Solutions can also be used for DNA isolation.
- No need to freeze samples in liquid nitrogen nor quickly transfer samples into a laboratory refrigerator.
- Compatible with most RNA isolation procedures including most RNA isolation kits
- Samples can be shipped by cold chain or at room temperature after sampling. One week at 18-25°C ; one month at 2-8°C; long-term storage at -20°C and -80°C.

## Shipping and Storage Conditions

Store at room temperature, valid for 12 months.

## Order Information

Product Code 208231  
Specification 50 mL/vial



Kit Composition	Main components	Content
DNA/RNA Stabilizer	Guanidine salts, nucleic acid protectants, etc	50 mL/vial

# Mini Plasmid Kit

## Introduction

This kit uses the alkaline lysis method to lyse cells and then specifically binds DNA in solution through an adsorption column in a high-salt state. The silicon matrix material used in the centrifuge adsorption column is a new material, which has the advantages of efficient and specific adsorption of DNA. This product is suitable for extraction of a small amount of plasma DNA and the extracted plasmids can be used for enzyme digestion, PCR amplification, sequence analysis, etc.

## Features

- High elution efficiency with new material of adsorbent column.
- Simple and fast extraction completed in 20 minutes without phenol/chloroform.
- Up to 20µg plasmid can be extracted with stable and reliable quality especially good integrity.
- The obtained plasmids are of high purity and can be directly used for the subsequent PCR experiments such as enzyme digestion and sequencing.

## Shipping and Storage Conditions

Store at 2-25°C.

## Order Information

Product Code 208001  
Specification 50 reactions



Component	Content	Amount
Solution I	13 mL/vial	1 vial
Solution II	13 mL/vial	1 vial
Solution III	18 mL/vial	1 vial
Buffer CPB1	21 mL/vial	1 vial
Buffer CPW1	15 mL/vial	1 vial
Buffer TE	5 mL/vial	1 vial
Spin Column	50 pcs/kit	50 pcs
Collection tube	50 pcs/kit	50 pcs

# Sputum Liquefying Agent

## Introduction

This product is used to dilute and liquefy the samples to be tested. Sputum is highly viscous and inconvenient for direct testing. So in clinical practice, sputum samples need liquefaction before testing to release mucin and to reduce the viscosity of the sputum. This product mainly uses substances containing sulfhydryl (-SH) to break the main components of mucin in sputum that causes viscosity, thereby reducing the viscosity of sputum and liquefying sputum.

## Features

- Easy to operate, only 10 minutes throughout the whole liquefaction process.
- Significant liquefaction effect on viscous samples.
- Good stability.
- Pathogens can be kept in an active state.

## Shipping and Storage Conditions

Store at 2-8°C, valid for 12 months.

## Order Information

Product Code 208221  
Specification 50 mL/vial 40kit/case



Kit Composition	Content
Sputum Liquefying Agent	50 mL/vial



# MOH Series Magnetic Beads

## Introduction

NEST MOH Series Magnetic Beads are designed for nucleic acid extraction and purification with excellent suspension property, redispersibility and rapid magnetic response. Owing to its strong compatibility, they can perfectly match with different manufacturers' nucleic acid extraction reagents and automated instruments (e.g. KingFisher Flex, Beckman Biomek FX, TechStar YC796).

## Features

- High nucleic acid binding capacity, >30µg DNA/mg
- Evenly dispersed beads with superparamagnetism, allowing for magnetic response time <20s
- Properties of quality stability, uniformity among batches, and excellent bead resuspension

## Product Parameter

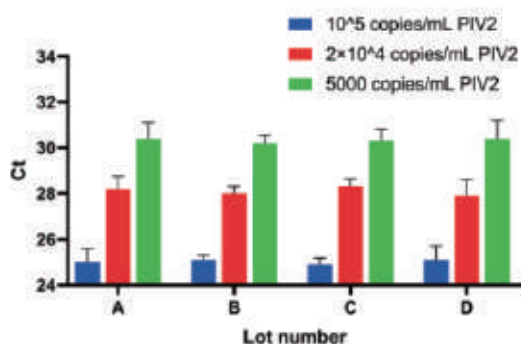
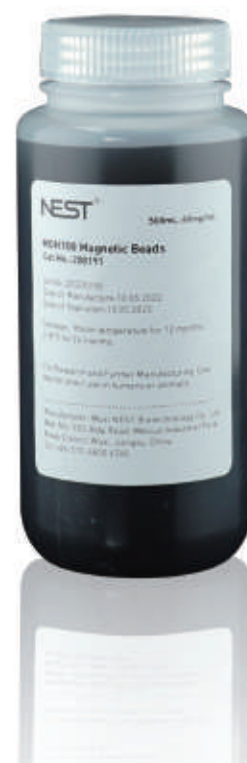
Name	MOH100	MOH1000
Cat. No.	208191	208211
Particle size	50~200 nm	1~2 µm
Surface functional group	Silanol	Silanol
Magnetic microsphere concentration	60 mg/mL	150 mg/mL
Preservation Solution	Purified water, trace surfactants	Purified water, trace surfactants
Recommended Dosage	1 ~ 1.2 mg/per sample	1.5 mg/per sample
Magnetic Response	Magneto-adsorption rate reaches 90% above in 15s.	Magneto-adsorption rate reaches 90% above in 10s.

## Storage conditions

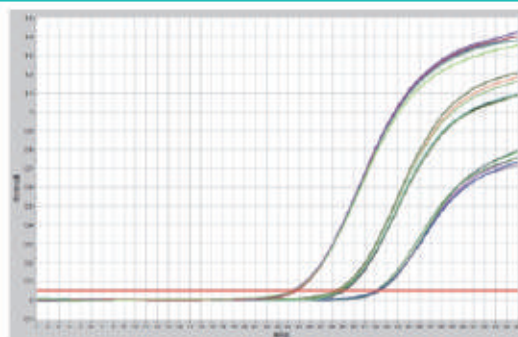
12 months at room temperature / over 24 months at 2-8 °C

## Application

- Viral/bacterial DNA&RNA extraction
- Plasma cell-free DNA (cfDNA) extraction
- Forensic trace DNA extraction
- Blood Genomic DNA extraction



RT-qPCR outcomes of 4 batches of MOH100 Magnetic Beads extracting PIV2 virus samples by gradient dilution



RT-qPCR amplification curve of MOH100 Magnetic Beads extracting PIV2 virus samples by gradient dilution

# Plant Genomic DNA Extraction Kit (Spin Column)

## Introduction

The centrifugal adsorption column that can specifically bind with DNA and a unique lysis and buffer system is applied to this kit to isolate and purify high-quality genomic DNA from different plant tissues. Silicon matrix materials in the centrifugal adsorption column can effectively and specifically adsorb DNA, and remove impurity proteins and other organic compounds in cells. The genomic DNA fragments extracted are large and pure with stable and reliable quality.

The DNA extracted and purified with this kit can be applied to various normal operations, including enzymatic digestion and PCR experiments.

## Features

- Rapid purification for high quality genomic DNA.
- Good reproducibility and high yield of extracted nucleic acids.
- Effectively remove contaminants and inhibitors for downstream applications.

## Application

- It is recommended to use fresh samples to ensure the integrity of the purified genomic DNA.
- If sample volume exceeds the recommended volume range, it is suggested to increase the volume of Buffer HB and Buffer PB, adding separately in one column or add in separate two columns.
- For long-term storage of extracted nucleic acids, it is proposed that they should be stored in eluent TE to ensure the concentration of purified nucleic acids in the range of 50-300 ng/ $\mu$ L and the ratio of OD260/OD280 in the range of 1.7-2.1.

## Shipping and Storage Conditions

Transport and store at room temperature in dark places. And its shelf life is 12 months.

## Order Information

Product code 208801  
Specification 50 reactions



Product composition	Content
Buffer HB	25 mL/vial
Buffer PB	12 mL/vial
Buffer BB	24 mL/vial
Buffer WB	7 mL/vial
Buffer TE	7 mL/vial
Spin Column	50 pieces/bag
Collection tube	50 pieces/bag

# Sealing Agent

## Introduction

Due to its superior blocking property, this product is widely applicable and can increase specificity if applied in immunoassay such as immunochromatography, immunoturbidity, chemiluminescence and enzyme-linked immunoassay.

## Order Information

Product code 211121  
Specification 50 mL/vial 4 vial/case

## Storage Conditions

The kit should be stored at 2-8°C

## Contents

1. Main ingredient: long chains of large molecules
2. Buffer system: None / HEPES / PBS



# DNase Lab Test Kit



## Introduction

DNase I is an endonuclease that can digest single- stranded or double-stranded DNA. This kit uses a DNA probe as a substrate. When DNase I is present in the sample, the DNA probe is degraded and the fluorophores labeled on the probe is separated from the quenchers to produce fluorescence, which is highly accurate, reproducible and sensitive.

## Shipping and Storage Conditions

The kit should be stored below -18°C.

## Order Information

Product code 210301  
Specification 50 reactions

Reagent Composition	Specification
DNase Fluorescers (Lyophilized)	1 tube
10×DNase Reaction Buffer	200 µL×1tube
DNase I	20 µL×1 tube
DNase-free Water	10 mL×1 bottle

# RNaseA Lab Test Kit



## Introduction

RNase A is an endoribonuclease that peculiarly attacks the 3' end of pyrimidine residues on RNA and cleaves the phosphodiester bond formed by cytosine or uracil and adjacent nucleotides. This kit uses an RNA probe as a substrate. When RNase A is present in the sample, the RNA probe is degraded and the fluorophores labeled on the probe are separated from the quenchers to produce fluorescence, which is highly accurate, reproducible, and sensitive.

## Shipping and Storage Conditions

The kit should be transported at normal temperature and stored away from light at 2-8°C.

RNase Fluorescers (Lyophilized) should be stored below -18°C after dissolved

## Order Information

Product code 210401  
Specification 50 reactions

Reagent Composition	Specification
RNase Fluorescers(Lyophilized)	1 tube
10×RNase Reaction Buffer	200 µL×1 tube
RNase A	40 µL×1 tube
RNase-free Water	10 mL×1 bottle

# 6×loading buffer

## Introduction

This product is DNA loading buffer suitable for agarose gel electrophoresis or non-denatured polyacrylamide gel electrophoresis.

## Storage Conditions

The buffer should be stored at 2-8°C.

## Order Information

Product code 211201

Specification 1 mL/vial 2vial/kit 4 kit/case

Reagent Composition	Specification
6×loading buffer	1mL/vial×2 tube



# Ready-to-use LB Liquid Culture Medium

## Introduction

LB culture medium (the name of a kind of culture medium), also known as LB broth, is commonly used to culture recipient bacteria (such as escherichia coli) for genetic engineering in biochemical molecular experiments, so that the bacterial colony can be multiplied, thus meeting the requirements for use. This product contains two components, namely LB culture medium and antibiotic, which are sterilized and packed separately. This medium is a yellow clear solution. pH: 7.0-7.4.

## Features

- The ready-to-use LB medium is formulated exactly the same as conventional LB medium, and no adjustments or changes are required for all subsequent experiments.
- The ready-to-use LB medium can be applied in the field of molecular biology such as bacterial culture, plasmid amplification and protein expression, the same as self-made LB medium.
- The antibiotics in this product are individually packaged, whose usage amount can be determined according to the experimental needs. And the LB medium is packaged in a single sterile tube, so that the bacteria can be directly inoculated into the medium, which is a great improvement in terms of usage compared with self-made LB medium.

## Storage Conditions & Shelf Life

Transported at 2-8°C and stored at 2-8°C for 6 months.

## Order Information

Product Code 209501、209502

Product Specification 3mL/piece, 32 pieces/box



209501	Ingredients	Specifications	209502	Ingredients	Specifications
LB culture medium	Tryptone 10g/L; yeast extract 5g/L; sodium chloride 10g/L	3mL / pce, 32 pcs / box	LB culture medium	Tryptone 10g/L; yeast extract 5g/L; sodium chloride 10g/L	3mL / pce 32 pcs/box
Kanamycin	Kanamycin 5mg/mL	32 pcs / box	Ampicillin	Ampicillin 5mg/mL	32 pcs / box



# Quick-KO Gene Knockout Kit

## Intended Use

NEST Quick KO® Gene Knockout Kit is an all-in-one ready-to-use CRISPR Knockout Kit tailored for scientific researchers. It contains the vital materials required for CRISPR knockout, from sgRNA design to cell lines knockout. It can successfully complete gene editing experiments while sharply improving the scientific research efficiency.

## Features

- All-in-one design for one-stop experiments.
- Easy and convenient operation throughout the experiment.
- No need to construct plasmids, saving time and simplifying the procedures.
- Validated sgRNA to improve the success rate of the experiment.
- Rapid genotype verification of cellular target genes without the need to extract and purify DNA.
- The risk of failure reduced and experiment cost saved.



## Ready-to-use Reagents with Simplified Operation

NEST Quick KO® Gene Knockout Kit contains constructed plasmids (or lentiviruses) and genes type identification primers that express sgRNA and Cas9. The kit is simple and convenient for customers to use directly.

	Categories	Storage Temperature	Specification
Quick-KO® Plasmid	Valid sgRNAs	-20°C	20µg
	NC gRNA	-20°C	20µg
	Optimized SpCas9	-20°C	80µg
DNA Lysis	Buffer A	-20°C	1.0 mL
	Buffer B	-20°C	50µL
Validity Test	2X High Fidelity Pfu Mix (+Dye)	-20°C	1.0mL*2
	gDNA Ctrl	-20°C	50 µL
	Genotyping Primer F	-20°C	1OD
	Genotyping Primer R	-20°C	1OD

## Optimized Design for Efficient Knock-out

As Quick-KO ® can obtain multiple alleles to completely knock off cell lines, its efficiency is 3-5 times of that of traditional single sgRNA gene knockout strategy. Deploying an optimized multi-wizard strategy, it guides Cas9 by sgRNA to cut specific gene locus, which results in DNA double-strand Break (DSB) and induces fragment deletion and finally knocks out the gene function. Meanwhile, the sgRNA contained in Quick KO has been tested on 293T cells and verified of improving research success rate.

## Two Marks for Free Choice

SgRNA attached to NEST Quick-KO® Gene Knockout Kit has double marks, fluorescence (mCherry) and drug sieve (puro) for customers' choice according to their demand.

## Time saved and cycle shortened to the minimal 4 weeks

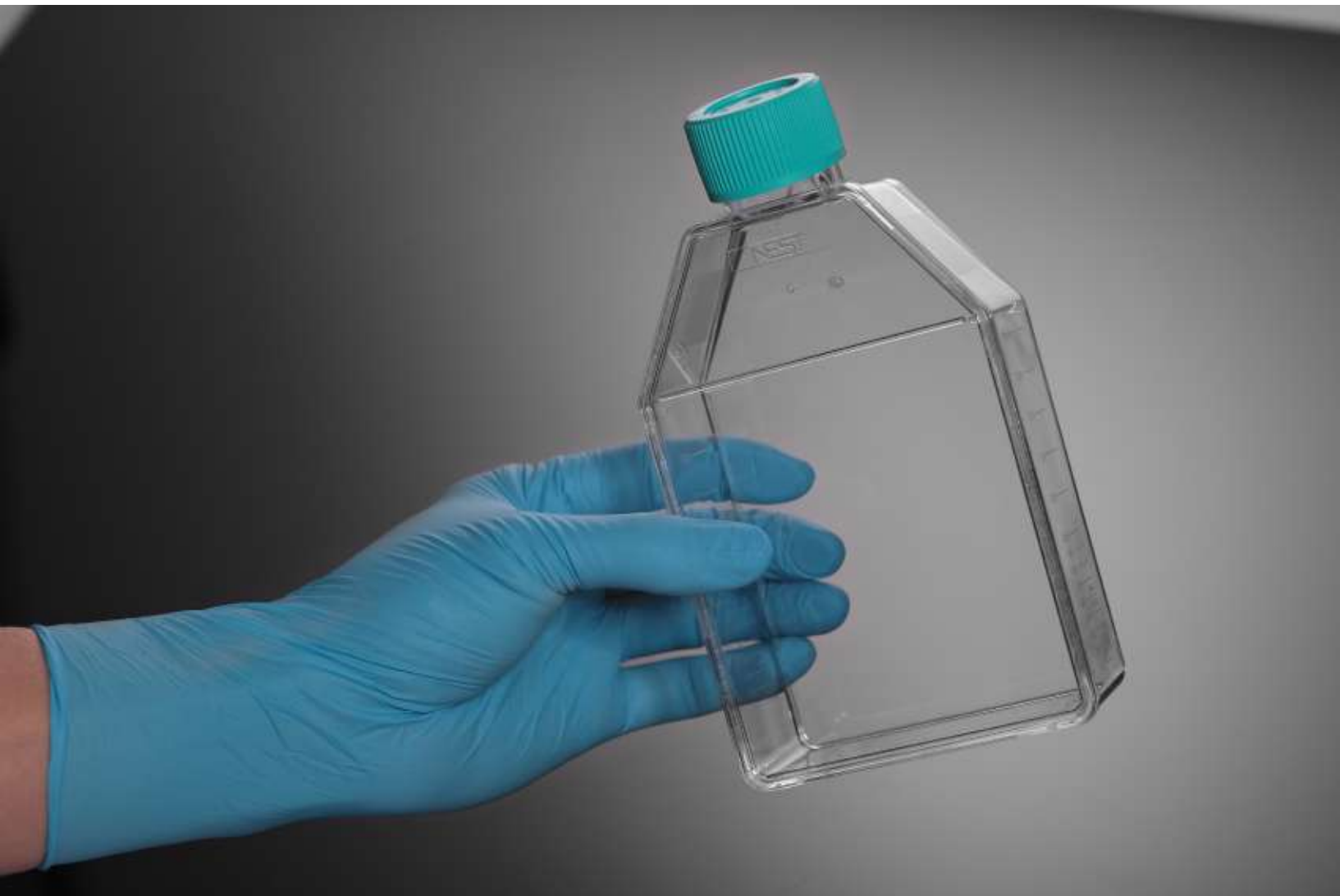
**Quick-KO** Trial Test (0-4Weeks) > Carrier Construction (0Weeks) > Targeted Cell Tranfection and Monoclonal Screening (4-6Weeks)

<----- Only 4-10 weeks required ----->

**Regular** Trial Test (0-4Weeks) > Carrier Construction (0Weeks) > Targeted Cell Tranfection and Monoclonal Screening (4-6Weeks)

<----- 10-15 weeks in total ----->

# Lab Safety



# Nitrile Examination Glove



Nitrile Powder Free Examination Gloves



Colloidal Oatmeal Coated Nitrile Gloves



## Features

- Single use only, powder free.
- Made in Malaysia.
- Non-Sterile.
- Tensile Strength: Minimum 18.0 MPa (Before Aging).
- Palm thickness: 0.07 mm.

## Nitrile Powder Free Examination Glove

Cat.No.	Size	Palm Width (mm) $\pm 4$ mm	Length (mm)	/Pack	/Case
902001	XS	76	Min 230mm (ASTM)	100	1,000
902011	S	86		100	1,000
902021	M	98		100	1,000
902031	L	107		100	1,000
902041	XL	115		90	900

## Nitrile Powder Free Examination Glove

Cat.No.	Size	Palm Width (mm) $\pm 4$ mm	Length (mm)	/Pack	/Case
902101	XS	$\leq 80$	Min 230mm (ASTM)	100	1,000
902111	S	80		100	1,000
902121	M	95		100	1,000
902131	L	110		100	1,000
902141	XL	$\geq 110$		90	900

## Colloidal Oatmeal Coated Nitrile Glove

### Oats Extractions

Oats extractions is a patented coating recognized by the FDA as a skin protectant, which have been proven by clinical studies could reduce and control rash and dry skin symptoms. Clinical studies have shown that colloidal oatmeal could reduce and control rash, dry skin.

Cat.No.	Size	Palm Width (mm) $\pm 4$ mm	Length (mm)	/Pack	/Case
903011	S	84	Min 230mm (ASTM)	100	1,000
903021	M	94		100	1,000
903031	L	105		100	1,000

# Latex Examination Glove



Latex Powder Free Examination Gloves



Colloidal Oatmeal Coated Latex Gloves



## Features

- Single use only, powder free.
- Made in Malaysia.
- Non-Sterile.
- Tensile Strength: Minimum 18.0 MPa (Before Aging).
- Palm thickness: 0.11 mm.

## Latex Powder Free Examination Glove

Cat.No.	Size	Palm Width (mm) $\pm 4$ mm	Length (mm)	/Pack	/Case
901001	XS	76	Min 230mm (ASTM)	100	1,000
901011	S	86		100	1,000
901021	M	98		100	1,000
901031	L	107		100	1,000
901041	XL	115		100	1,000

## Colloidal Oatmeal Coated Latex Glove

### Oats Extractions

Oats extractions is a patented coating recognized by the FDA as a skin protectant. Clinical studies have shown that colloidal oatmeal could reduce and control rash, dry skin symptoms.

Cat.No.	Size	Palm Width (mm) $\pm 4$ mm	Length (mm)	/Pack	/Case
904011	S	84	Min 230mm (ASTM)	100	1,000
904021	M	94		100	1,000
904031	L	105		100	1,000



# Nonwoven Mask

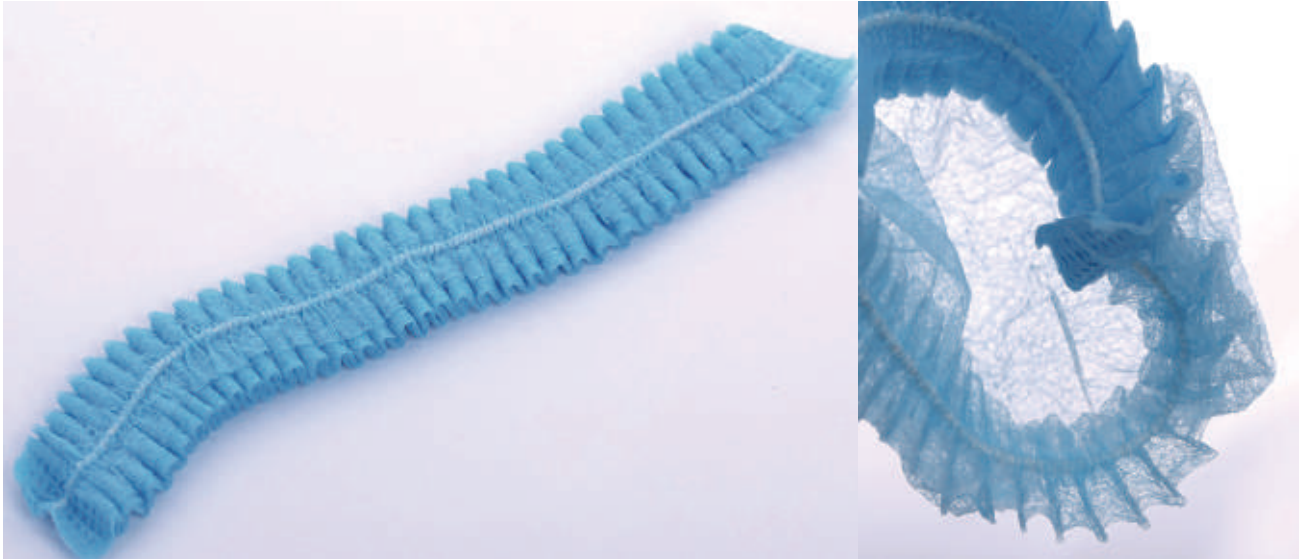


## Features

- Can filter some toxic and harmful substances, odor gases, dust, etc. in the air.
- Bendable nose clip to ensure a better fit between the mask and the face.
- Foldable, easy to store, light weight, easy to carry.
- The four-layer activated carbon protection mask is made of activated carbon fiber of high adsorption, which is more effective in filtering than the ones protection mask without activated carbon fiber.

Cat.No.	Name	Size (±0.5cm)	Color	/Pack	/Case
922001	Three-layer PP Non-woven Lab Protection Mask	17.5 x 9	Blue	50	500
922101	Four-layer PP Activated Carbon Non-woven Lab Protection Mask	17.8 x 9.3	Dark Gray	50	500

# Mushroom Cap & Non-woven Shoe Cover



## Features

- Breathable, dustproof, able to block dust and microorganisms.
- Not feeling tight for long-time wearing, no allergic reaction.

Cat. No.	Name	/Pack	/Case
921001	Blue Mushroom Cap	100	1,000



## Features

- Breathable, non-slip, with rubber bands, comfortable to wear.

Cat. No.	Size(cm)	/Pack	/Case
923001	42 * 17	100	1,000

# 7° Digital Nutating Mixer

## Features

- The adjustable and gentle motion is ideal for many staining applications;
- Includes a large platform and non-slip mat;
- Low voltage power supply provides safe cold room operation and low energy consumption;
- Continuous or timed operation with automatic switch-off;
- Continue to run by last set speed and the remaining time when the power recovers;
- Audible and visual alarm: In timed mode, alarm will sound 5 times and then the time window shows "End" and flicker 5 times when the time reaches zero.

Cat. No.	105005
Speed	2~80rpm
Speed Accuracy	1rpm
Tilt Angle	7°
Timer	0~99h59min
Platform Dimensions	307x297mm
Max. Load	0.8kg
Display	LED
Included Accessory Standard in Packaging	6 Rubber Strips
Ambient Temperature	5~40 C
Relative Humidity	≤80%
Power Supply	AC100~240V, 50 / 60Hz
Max. Power	6.5W
Dimensions	440(L)x296(W)x189(H)mm
Net Weight	7.3kgs
Protection Level	IP21



Rubber Strip

# Mini Vortex Mixer

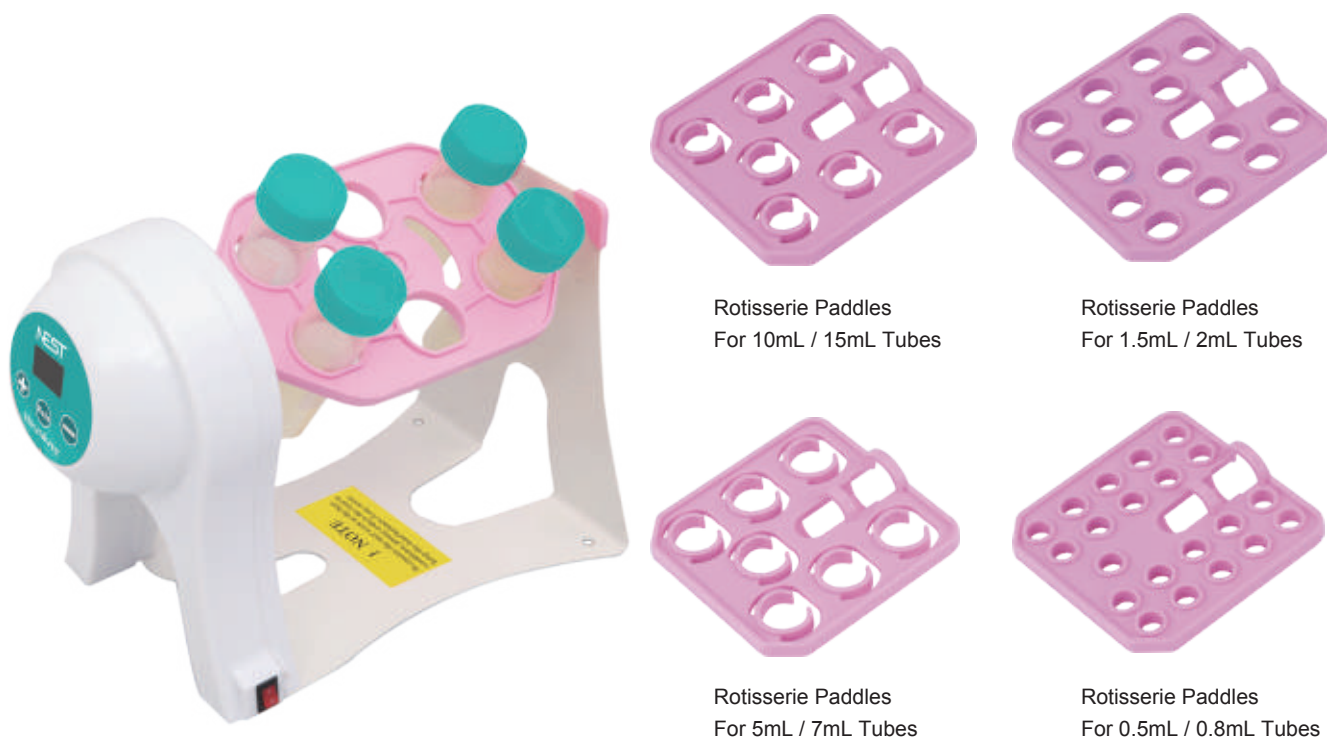
## Features

- Extremely compact and easy operate;
- Powerful vortex for tubes up to 30mm;
- Head is made of durable material to ensure long life;
- Refined steel base is designed to ensure product stability.

Cat. No.	105003
Oscillation Mode	Circumference Oscillation
Orbital Diameter	Φ4.5mm
Max. Capacity	80mL
Max. Tube Diameter	Φ30mm
Speed	3000rpm
IP rating (DIN EN 60529)	IP40
Ambient Temp.	5~40 C
Outside Dimensions	Φ96xH85mm
Power	5W
Power Supply	AC100~240V, 50/60Hz
Weight	0.55kg



# Variable Speed Tube Revolver with Digital Display



## Features

- Small footprint, "Plug and Play" operation;
- Includes five different interchangeable rotisseries;
- Rotation direction can be changed by slightly touching the rotisseries;
- Paddle angle is adjustable for different purposes;
- High quality, maintenance-free motor with little noise.

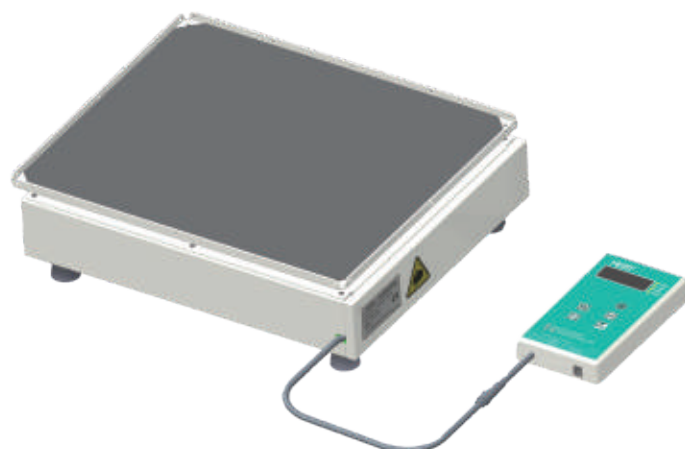


Rotisserie Paddles  
For 50mL Tubes

Cat. No.	105004
Rotation Speed	10~40rpm
Capacity	84x0.5mL tubes, 60x1.5mL / 2.0mL tubes, 28x5mL / 7mL tubes, 24x10mL tubes, 6x50mL tubes
Holder for Tubes Standard Configuration	Rotisserie Paddles for 10mL / 15mL Tubes 2pcs Rotisserie Paddles for 5mL / 7mL Tubes 2pcs Rotisserie Paddles for 1.5mL / 2mL Tubes 2pcs Rotisserie Paddles for 0.5mL / 0.8mL Tubes 2pcs Rotisserie Paddles for 50mL Tubes 1pcs
Ambient	4~60 C
Outside Dimensions	260(W)x148(D)x195mm(H)
Power	10W
Power Supply	AC100V~240V 50Hz/60Hz
Weight	1kg



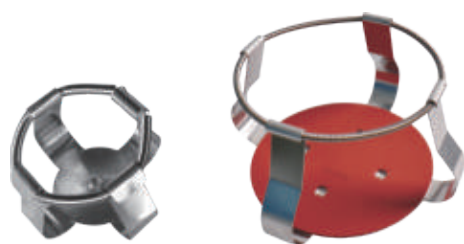
# CO<sub>2</sub> Orbital Shaker



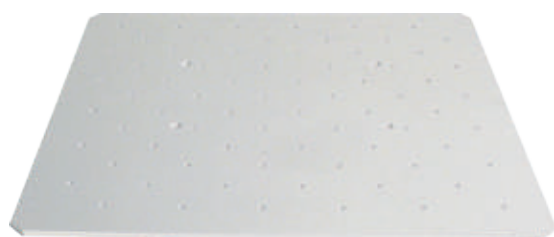
## Features

- Orbital shaking through magnetic power eliminates the need to replace belts;
- Small footprint ideal for use in a CO<sub>2</sub> incubator;
- Specially treated mechanical components protect up to 20% CO<sub>2</sub> and 95% humidity conditions;
- Convenient external control box with LED display allows for easy adjustments without opening the chamber door;
- Minimal heat dissipation assures conditions within the CO<sub>2</sub> chamber are not effected;
- CO<sub>2</sub> resistant shaker can be used outside of CO<sub>2</sub> incubator for maximum value.

Cat. No.	105008 (No Accessories) / 105009 (Contains Accessories)
Speed Range	30rpm~300rpm
Timer	0~99h59min (0, continuous)
Orbit Diameter	Φ19mm
Platform Dimensions	355mmx300mm
Max.Capacity	50mL x30 / 100mL x15 / 150mL x15 / 200mL x15 / 250mL x15 500mL x9 / 1000mL x6 / 2000mL x4 / 3000mL x2 / 5000mL x1
Display	LED
Max.Load	6kgs
Ambient	Temp.: 5 ~ 60 Humidity: <99%RH
Outside Dimensions (WxDxH)	Machine Body: 360 x 300 x 96mm Control Box: 360 x 105 x 75mm The Unit: 360 x 405 x 96mm
Power	30W
Power Supply	AC100~240V, 50Hz/60Hz
Weight	Machine Body :17.5kgs Control box: 1kg



Flask Clamp



Aluminum Platform

## Flask clamp feature

Made of polished stainless steel. They can be fixed on any platform of all models of incubator shakers.

Cat.No.	Name
105901 ▲	100mL Flask Clamp * 2
	250mL Flask Clamp * 4
	500mL Flask Clamp * 4
	1000mL Flask Clamp * 2
	2000mL Flask Clamp * 2
	Aluminum Platform * 1
105902 ▲	100mL Flask Clamp
105903 ▲	250mL Flask Clamp
105904 ▲	500mL Flask Clamp
105905 ▲	1000mL Flask Clamp
105906 ▲	2000mL Flask Clamp
105907 ▲	Aluminum Platform 300mm*360mm

▲ Make to Order

# Standard Mini Roller



Standard Mini Roller (6 Rollers)



Control Box

Standard Mini Roller (11 Rollers)

- Variable speed to accommodate numerous applications.
- Anti-corrosive and wear-resistant construction for use in humid and CO<sub>2</sub> environments.
- Remote control box makes it easy to operate the unit while it is in an incubator.

Product Name	Standard Mini Roller (11 Rollers)	Standard Mini Roller (6 Rollers)
Cat. No.	105007	105006
Included Accessory Standard in Packaging	Rollers: 11 O Ring (23.5x3.6mm): 20 O Ring (13.2x2.7mm): 20	Rollers: 6 O Ring (23.5x3.6mm): 20 O Ring (13.2x2.7mm): 20
Roller Speed	0.5~80rpm	0.5~80rpm
Operating Mode	Way forward	Way forward
Roller Dimensions (DXL)	Φ28mmx259mm	Φ28mmx259mm
Available Tubes or Bottles	Max. Ø120mm bottles; tubes	Max. Ø120mm bottles; tubes
Positions	Centrifuge tubes can be placed randomly or three 1500ml standard bottles	Centrifuge tubes can be placed randomly or three 1500ml standard bottles
Max.Load	6.5kgs	6.5kgs
Ambient	5℃~60℃	5℃~60℃
Relative Humidity	≤95%	≤95%
Display	LED	LED
Timer (Control Box)	999min or continuous	/
Outside Dimensions (WxDxH)	378mmx360mmx72mm	378mmx360mmx72mm
Power	10w	10W
Power Supply	AC100~240V,50/60Hz	AC100~240V,50/60Hz
Weight	6.5kgs	6.5kgs

# Automatic Decapper Instruction manual

NEW



## Product Introduction

The device is equipped with the functions of automatic capping g/uncapping and automatic counting, which is small and light, out of ergonomic inclination design. It is of ergonomic inclination design, small and light. With a single hand holding the tube, automatic capping/uncapping can be realized, effectively reducing the working intensity of testers and greatly improving the working efficiency.

## Features

**Flexible & Easy-to-use** Multiple working modes available (Continuous uncapping; continuous capping; and capping after uncapping), The device can customize the parameters such as torque, clamping force and number of turns to avoid sealing failure and prevent sample contamination.

**Intelligent & Efficient** The device is fitted with a high-safety automatic trigger starting mechanism, without need for manual trigger of key, The processing speed less than 4s/sample.

**Compatible** The device is suitable for the sampling tubes with screw caps( the cap diameter is 8-22mm) and can be customized for other sizes.

**Safe & Portable** The software interface is simple and easy to understand, with counting display, counting re-set and module re-set functions. With a small size, it is flexible to move and can be used in the working scenarios such as biosafety cabinet and super clean bench, and disinfectant like alcohol can be used to directly spray for disinfection.

Product Model	European / German standard plug	British standard plug	South Africa / India standard plug	American standard plug
Cat.No.	107001	107002	107003	107004
Clamping force	40-150N			
Capping/torque	1N*m			
Starting mode	Push up the tube to automatically trigger the startup			
Working mode	Continuous uncapping; continuous capping; and capping after uncapping			
Settable functions	Torque, clamping force, number of turns, uncapping mode			
Applicable specifications	The sampling tubes with screw caps (the cap diameter is 8-22mm)			
Weight	10 kgs			
Dimensions	250mm×245mm×420mm			

## Application sites



## Application scenarios

1

Sample collection link  
(Sample collection for COVID-2019 testing)

2

Sampling and testing link  
(Sampling for COVID-2019 testing)

3

Packaging  
(Reagent packaging)

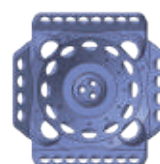
Other

# Centrifuge

## Feature

- Electronic locks. Centrifugation only when the lid is locked.
- The lid opens automatically after centrifugation.
- Fast Lifting Speed, the electronic brake.
- Low Noise.
- Capacitive touchpad, responsive.
- LCD display. Real-time display of speed, time and operating status.
- Centrifugal time and speed adjustable. Adjustable speed during centrifugation.
- Size: 260\*220\*150mm.
- Voltage: 110-220V, 50-60HZ.

Type	Name	Centrifuge Range (RPM)	Max RCF (g)	Rotor
102001	Universal Centrifuge	500-6,000	2,400	General Rotor ( 1.2/05/1.5/5.0ml )
102002	5 mL Centrifuge	500-6,000	2,400	For 5 mL Centrifuge Tubes
102101	High - Speed Centrifuge	500-12,000	8,800	For 1.5 mL & 2.0 mL Centrifuge Tubes



General Rotor



5 mL Centrifuge



High - Speed  
Centrifuge

# Mini Dry Bath

## Feature

- Manual mode & automatic mode.
- Fast heating, with overheat protection switch to prevent overheating.
- Display setting parameters and real-time parameters simultaneously, easy to observe and use.

Range of Application	0.2/0.5/1.5/2.0ml Centrifuge tube
Temperature Range	Indoor temperature-100 °C
Time set	1-999min or 1-999sec
Temperature control accuracy	±0.1 °C
Temperature uniformity	±0.3 °C
Heating up time	About 5min
Touch screen	Capacitive touch screen
Display	LCD
Voltage	100-220V , 50-60HZ
Size	157*115*100mm (L*W*H)
Weight	About 0.5kg





# Intelligent Biobank Management System



## Product Advantages

### Identification in Seconds

Complete whole box identification and storage in 3-5 seconds.

### Permanent Storage

Permanently store historical records, making all operating information clear at a glance.

### Multiple-terminal

Storage at service terminals, support simultaneous use of multiple terminals.

### High Efficiency

Support simultaneous use of multiple terminals such as refrigerators, liquid nitrogen tanks, etc.

### High Compatibility

Support cryogenic vials of different sizes. 9\*9, 10\*10 and 12\*8 are all suitable.

### Easy to Use

Intelligent judgment of warehousing type and guide users to operate.

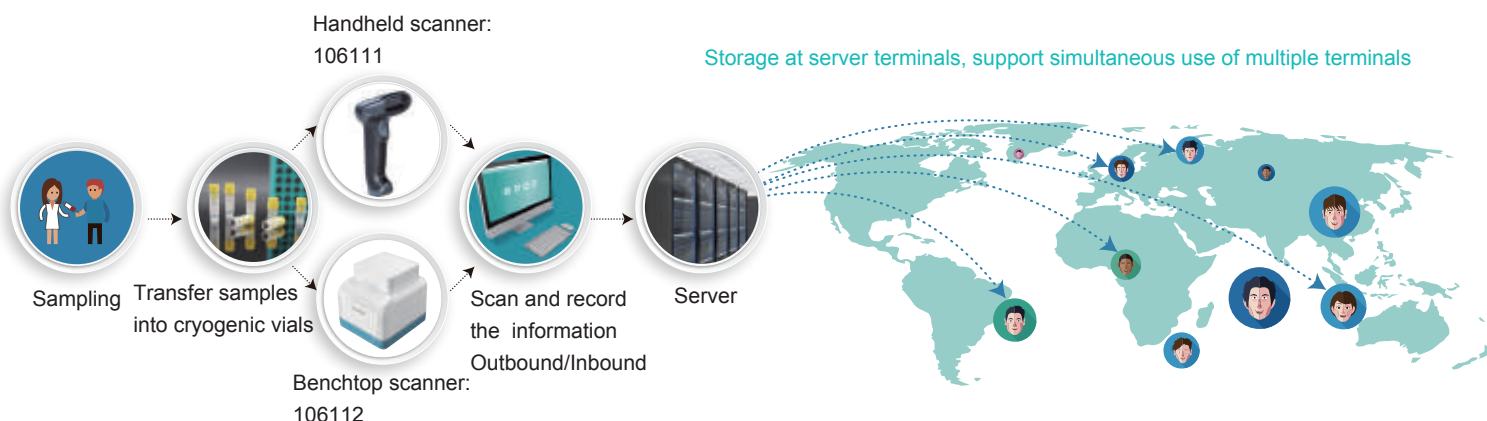
### Intelligent Selection

Intelligent selection of storage location.

### Easy to Manage

Hierarchical management design, to prevent accidental deletion of information.

Storage at server terminals, support simultaneous use of multiple terminals



## Benchtop scanner:

Cat. No.	106112
Scan time of whole box	3-5s
Normal identification rate	≥99.99%
System interface	USB
Operating system	Windows 10 64bit
Input power	AC 100-240V~,10W
Working temperature	0-40℃

## Handheld scanner:

Cat. No.	106111
Scan time of single vial	0.5s
Normal identification rate	≥99.99%
System interface	USB
Operating system	Windows 10 64bit
Input power	5V, 2W
Working temperature	0-40℃

## Application



Medical and health service providers



Scientific research institutions



Biopharmaceutical companies



Biological labs



Cell&sperm banks,...

Other

# CHEMICAL RESISTANCE CHART

	ABS	Acetal	HDPE	LDPE	PC	PP	Santo- prene	Sili- cone	Reagent	ABS	Acetal	HDPE	LDPE	PC	PP	Santo- prene	Sili- cone
Acetaldehyde	D	A	C	C	C <sup>1</sup>	A <sup>1</sup>	—	A	Benzene	D	A <sup>1</sup>	D	D	D	D	D	D
Acetamide	—	A	A	A	D	A <sup>1</sup>	—	B	Benzene Sulfonic Acid	—	—	A	A <sup>1</sup>	D	D	—	D
Acetate Solvent	—	—	A	A	—	B <sup>1</sup>	—	C	Benzoic Acid	—	B	A	A <sup>1</sup>	D	D	—	D
Acetic Acid	D	D	A	A <sup>2</sup>	B <sup>1</sup>	B	A	C	Benzol	D	A	—	C <sup>1</sup>	B <sup>1</sup>	B	D	D
Acetic Acid 20%	C	C	A	A <sup>2</sup>	A <sup>1</sup>	A	A	B	Benzonitrile	—	—	—	—	A <sup>1</sup>	—	—	A <sup>1</sup>
Acetic Acid 80%	D	D	A	D	B <sup>1</sup>	A	C	B	Benzyl Chloride	D	A	—	—	—	C <sup>1</sup>	—	D
Acetic Acid, Glacial	D	A	D	B <sup>1</sup>	A <sup>1</sup>	D	B	—	Bleach	B	D	—	—	—	D	—	—
Acetic Acid, Vapors	—	—	—	—	—	—	—	A	Bleaching Liquors	—	—	—	A <sup>1</sup>	—	A <sup>1</sup>	—	B
Acetic Anhydride	C <sup>1</sup>	D	C	D	—	B <sup>1</sup>	D	C	Borax (Sodium Borate)	—	B	A	A <sup>2</sup>	—	B	—	B
Acetone, 50% water	D	—	—	—	—	A	—	A <sup>2</sup>	Boric Acid	—	A	A	A <sup>2</sup>	—	A	A	A
Acetone	D	A	D	B <sup>1</sup>	D	A	—	D	Brewery Slop	—	B	—	—	—	—	—	—
Acetonitrile	D	—	A	B <sup>1</sup>	D	D	A	D	Bromine	D	D	D	D	C <sup>1</sup>	D	—	D
Acetophenone	—	—	C	D	D	C	—	—	Bromofom	—	—	D	D	D	D	—	—
Acetyl Bromide	—	—	—	D	—	—	—	—	Butadiene	—	A	D	D	D	C	—	D
Acetyl Chloride (dry)	D	D	—	D	D	D	A	C	Butane	B	A	—	C <sup>1</sup>	D	A <sup>1</sup>	—	D
Acetylene	—	A	—	D	D	A <sup>1</sup>	—	B	Butanol (Butyl Alcohol)	—	A	—	B <sup>2</sup>	B <sup>1</sup>	A <sup>1</sup>	B	B
Acrylonitrile	D	—	A	A	—	A <sup>1</sup>	D	D	Butter	B	A	—	—	—	—	D	B
Adipic Acid	—	—	A	A	—	B <sup>2</sup>	—	—	Buttermilk	B	A	—	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	—	A
Alanine	—	—	A	A	A	A	—	—	Butyl Amine	—	C <sup>1</sup>	—	C <sup>1</sup>	D	B <sup>1</sup>	—	B <sup>1</sup>
- Benzyl	A <sup>1</sup>	A	A	B <sup>2</sup>	B <sup>1</sup>	B <sup>1</sup>	A	D	Butyl Ether	—	D	—	—	D	D	—	D
- Butyl	D	A	B	A	—	A	D	B	Butyl Phthalate	—	—	A	C <sup>1</sup>	D	B <sup>2</sup>	—	A <sup>1</sup>
- Diacetone	A <sup>1</sup>	A	—	A	A <sup>2</sup>	A	B	B	Butyl acetate	—	—	A	B	D	B <sup>1</sup>	—	D
- Ethyl	—	A	A	B <sup>1</sup>	—	B <sup>2</sup>	A	D	Butylene	—	A	—	B <sup>1</sup>	D	—	—	D
- Hexyl	B <sup>1</sup>	A <sup>1</sup>	—	A	B <sup>2</sup>	—	—	B	Butyric Acid	D	A	D	D	D	B <sup>1</sup>	A	D
- Isobutyl	B	A	A	A <sup>2</sup>	—	A <sup>1</sup>	—	A	Calcium Bisulfate	—	—	—	—	D	—	—	C
- Isopropyl	—	A	A	A <sup>2</sup>	A <sup>2</sup>	A <sup>2</sup>	—	A	Calcium Bisulfide	—	D	—	B <sup>1</sup>	—	A	—	C
- Methyl	D	A	A	A <sup>1</sup>	B <sup>1</sup>	A <sup>2</sup>	A	A	Calcium Bisulfite	—	D	A	A <sup>1</sup>	D	A	—	A
- Octyl	A <sup>1</sup>	A	—	—	—	—	—	B	Calcium Bromide 38%	—	—	—	—	—	—	—	—
- Propyl	B <sup>1</sup>	A	—	A <sup>2</sup>	—	A	A	A	Calcium Carbonate	—	A	—	B <sup>1</sup>	C <sup>2</sup>	A	—	A
Allyl Chloride	D	—	A	—	—	A	A	A	Calcium Chlorate	—	A	—	—	—	—	—	—
Aluminium Acetate (saturated)	—	—	—	—	—	A	—	D	Calcium Chloride (30% in water)	B	D	A	B <sup>2</sup>	—	A <sup>2</sup>	—	A
Aluminium Chloride	A	—	A	B <sup>2</sup>	A <sup>1</sup>	A	—	B	Calcium Chloride (saturated)	A	D	A	—	—	A	—	A
Aluminium Chloride 20%	—	C	A	B <sup>2</sup>	A <sup>1</sup>	A	—	B	Calcium Fluoride	—	—	—	—	—	—	—	—
Aluminium Fluoride	A	C	A	A <sup>2</sup>	A <sup>2</sup>	A	—	B	Calcium Hydroxide 10%	—	A	A	—	—	A	—	A
Aluminium Hydroxide	B	A	A	A <sup>2</sup>	B <sup>1</sup>	A	—	—	Calcium Hydroxide (saturated)	A	—	A	—	—	A	—	A
Aluminium Nitrate	—	B <sup>1</sup>	—	A <sup>2</sup>	A <sup>1</sup>	A <sup>2</sup>	—	A	Calcium Hydroxide	—	D	A	A <sup>2</sup>	D	A <sup>2</sup>	—	A
Aluminium Phosphate	—	—	—	—	—	—	—	—	Calcium Hypochlorite 30%	—	—	A	—	—	A	—	—
Aluminium Potassium Sulfate 10%	—	C	A	A <sup>2</sup>	A <sup>1</sup>	A	—	A	Calcium Hypochlorite (saturated)	A	—	A	—	—	—	—	—
Aluminium Potassium Sulfate 100%	—	C	A	A <sup>2</sup>	A <sup>2</sup>	A	—	A	Calcium Hypochlorite	—	D	A	A <sup>1</sup>	D	A <sup>1</sup>	—	B
Aluminium Sulfate	A <sup>2</sup>	B <sup>1</sup>	A	A <sup>2</sup>	A	A	A	A	Calcium Nitrate	A	D	B	A <sup>1</sup>	A <sup>2</sup>	A <sup>2</sup>	—	B <sup>1</sup>
Alums	—	—	—	A	—	A	—	A <sup>1</sup>	Calcium Oxide	D	A	—	B <sup>1</sup>	A	A	—	—
Amines	—	D	B	C <sup>1</sup>	D	A <sup>2</sup>	—	B	Calcium Sulfate	C	D	—	B <sup>1</sup>	A <sup>2</sup>	A	—	—
Ammonia 10%	—	D	A	C <sup>1</sup>	D	A <sup>2</sup>	—	—	Calcium Sulfide	—	—	—	—	—	A	—	—
Ammonia Nitrate	—	C	—	—	—	A	—	—	Calgon	—	A	—	—	—	A	—	A
Ammonia, anhydrous	D	D	A	B <sup>2</sup>	D	A	—	C	Cane Juice	—	A	—	—	—	C <sup>1</sup>	—	A
Ammonia, liquid	—	D	A	C <sup>1</sup>	D	A <sup>2</sup>	—	—	Carbolic Acid (Phenol)	D	D	—	D	D	B	—	D
Ammonium Acetate	—	—	—	—	—	—	—	—	Carbon Bisulfide	—	A	—	—	—	—	—	—
Ammonium Bifluoride	A <sup>2</sup>	D	—	A <sup>2</sup>	—	A	—	—	Carbon Dioxide (dry)	B	A	—	A <sup>1</sup>	—	A <sup>2</sup>	—	B
Ammonium Carbonate	A <sup>2</sup>	D	B	B <sup>2</sup>	—	A	—	C	Carbon Dioxide (wet)	B	A	—	A <sup>1</sup>	—	A <sup>2</sup>	—	B
Ammonium Caseinate	—	D	—	—	—	—	—	—	Carbon Disulfide	—	—	D	D	D	D	—	—
Ammonium Chloride	A <sup>2</sup>	B	A	A <sup>2</sup>	A <sup>2</sup>	A	—	C	Carbon Monoxide	—	A	—	A <sup>2</sup>	D	A	—	A <sup>2</sup>
Ammonium Fluoride 25%	D	—	A	—	—	A <sup>4</sup>	—	—	Carbon Tetrachloride	D	—	C	D	—	D	—	D
Ammonium Hydroxide	B	C	A	A <sup>1</sup>	D	A	—	A	Carbon Tetrachloride (dry)	D	—	C	D	—	D	—	D
Ammonium Glycolate	—	—	A	A	B	A	—	—	Carbon Tetrachloride (wet)	D	A <sup>1</sup>	C	—	—	B	—	—
Ammonium Nitrate	—	A <sup>2</sup>	A	A <sup>1</sup>	—	A	—	—	Carbonated Water	—	—	—	A	—	—	—	—
Ammonium Oxalate	—	B	A	—	A <sup>1</sup>	A	—	—	Carbonic Acid	—	B <sup>1</sup>	B	R <sup>2</sup>	A <sup>1</sup>	A	—	A
Ammonium Persulfate	A <sup>2</sup>	D	A	A <sup>2</sup>	—	A	—	D	Catsup	B	B	—	—	—	A	—	—
Ammonium Phosphate, Dibasic	A <sup>2</sup>	B <sup>2</sup>	—	A <sup>2</sup>	A <sup>2</sup>	A	—	A	Cellulose Acetate	—	—	—	—	—	A	—	—
Ammonium Phosphate, Monobasic	—	B	—	A <sup>2</sup>	A <sup>2</sup>	A	—	A	Chloral Hydrate	A	—	D	—	—	D	—	—
Ammonium Phosphate, Tribasic	—	B	—	C	—	A	—	A	Chloric Acid	—	D	—	—	—	—	—	—
Ammonium Sulfate	A <sup>2</sup>	B <sup>1</sup>	A	A <sup>1</sup>	A <sup>2</sup>	A	—	A	Chlorinated Glue	—	D	C	—	—	—	—	D
Ammonium Sulfite	—	D	B	B <sup>2</sup>	—	A	—	—	Chlorine Water	—	D	—	B <sup>1</sup>	D	D	—	D
Ammonium Thiosulfate	—	B	—	A	—	—	—	—	Chlorine Anhydrous Liquid	—	A <sup>1</sup>	C	—	C	D	—	D
Amyl Acetate	D	B <sup>1</sup>	—	C <sup>1</sup>	D	B <sup>1</sup>	D	D	Chlorine (dry)	—	D	B	D	D	C <sup>1</sup>	—	D
Amyl Alcohol	A <sup>1</sup>	A	A	B <sup>2</sup>	B <sup>1</sup>	B <sup>1</sup>	A	D	Chloroacetic Acid	—	D	A	D	D	C <sup>1</sup>	D	D
Amyl Chloride	D	A	B	—	—	D	—	D	Chlorobenzene (Mono)	D	D	D	C <sup>1</sup>	D	C <sup>1</sup>	—	D
Aniline	D	A <sup>1</sup>	B	C	D	A <sup>1</sup>	D	B	Chlorobromomethane	—	—	—	—	—	—	—	D
Chloralhydrate	—	—	—	—	—	—	—	—	Chloroform	D	A	D	C <sup>1</sup>	D	C <sup>1</sup>	—	D
Aniline Hydrochloride	D	—	—	D	D	D	—	D	Chlorosulfonic Acid	—	D	D	D	C <sup>1</sup>	D	—	D
Antifreeze	B	D	—	—	—	D	—	C	Chocolate Syrup	—	A	—	—	A	A <sup>2</sup>	—	—
Antimony Trichloride	A <sup>2</sup>	—	B	B <sup>2</sup>	A <sup>2</sup>	A	A	—	Chromic Acid 5%	B	D	A	A	B	D	D	C
Aqua Regia (80% HCl, 20% HNO <sub>3</sub> )	D	D	D	R <sup>1</sup>	D	B <sup>1</sup>	D	D	Chromic Acid 10%	B	D	A	A	B	D	D	C
Arochlor 1248	—	—	—	C <sup>1</sup>	—	D	—	B	Chromic Acid 30%	B	D	A	A	C	D	D	C
Aromatic Hydrocarbons	—	A	—	C	—	D	—	D	Chromic Acid 50%	D	D	A	A	D	D	D	C
Arsenic Acid	A <sup>2</sup>	D	B	B <sup>2</sup>	A <sup>1</sup>	A	B	A	Chromium Salts	—	—	—	B	—	—	—	—
Arsenic Salts	—	—	—	B	—	—	—	—	Cider	—	A	—	B	A	A	—	B <sup>1</sup>
Asphalt	—	B <sup>2</sup>	—	A <sup>1</sup>	D	B <sup>1</sup>	—	D	Citric Acid	D	B <sup>1</sup>	A	D	A <sup>1</sup>	A	A	A
Barium Carbonate	A <sup>2</sup>	A	—	B <sup>2</sup>	A <sup>2</sup>	A	—	—	Citric Oils	—	B	B	—	—	A	—	—
Barium Chloride	A <sup>2</sup>	A	B	A <sup>1</sup>	A	A	—	A	Coffee	—	A	—	—	—	A	—	A
Barium Cyanide	—	B	—	B	—	D	—	—	Copper Chloride	A	A	—	—	—	A	—	A <sup>1</sup>
Barium Hydroxide	A <sup>2</sup>	D	—	B <sup>2</sup>	D	B	—	A	Copper Cyanide	—	A	—	B <sup>2</sup>	D	—	—	—
Barium Nitrate	—	B <sup>2</sup>	—	B <sup>2</sup>	D	A	—	B	Copper Fluoborate	—	B	—	—	—	—	—	—
Barium Sulfate	A <sup>2</sup>	B <sup>2</sup>	B	B <sup>2</sup>	D	B <sup>1</sup>	—	A	Copper Nitrate	—	A	—	B <sup>2</sup>	D	A	—	—
Barium Sulfide	A <sup>2</sup>	A	A	B <sup>2</sup>	—	B	—	A	Copper Sulfate 5%	—	D	A	A <sup>2</sup>	A	A	—	A
Beer	A <sup>2</sup>	A <sup>1</sup>	A	A <sup>2</sup>	A <sup>2</sup>	A <sup>1</sup>	—	A	Copper Sulfate >5%	—	D	A	A <sup>2</sup>	A <sup>1</sup>	A	—	—
Beet Sugar Liquids	B	B	—	A <sup>1</sup>	—	A <sup>1</sup>	—	A	Cream	—	A	—	—	—	—	—	D
Benzaldehyde	B	A	B	A	D	D	D	D	Creosote	A	D	A	—	—	—	—	D
Benz enamine	—	—	B	A	D	A	—	—	Cresols	D	D	D	C <sup>1</sup>	D	D	D	D

A- No effect  
B- Minor effect  
C- Moderate effect

D- Severe effect;  
not recommended  
— No data available

Explanation of  
footnotes:

- 1- Satisfactory to 72 °F (22 °C)
- 2- Satisfactory to 120 °F (48 °C)
- 3- Satisfactory to 90 °F (32 °C)
- 4- Satisfactory to 200 °F (93 °C)



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