

PRODUCT CATALOGUE

NEST International

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NEST YouTube Channel

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Have you checked out the new designs and functions on our website?



COA/COC Download



Documents Download



Missed out specific details? Scann the QR codes above to experience NEST online services.



Cross-Reference Tool



PCR Product Compatibility Reference Tool



Closed System Customization

You can also visit https://www.cell-nest.com/

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A leading life science plastic consumables manufacturer.

Established in 2009, Wuxi NEST Biotechnology Co., Ltd. (NEST) is renowned for its brand "NEST" and is dedicated to the research, development, and manufacturing of high-quality life sciences products. As our International business expands, our products have been successfully exported to numerous countries such as North America, Europe, Japan, Korea, India, and more.

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 48,000ft² 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.



Overseas Branches

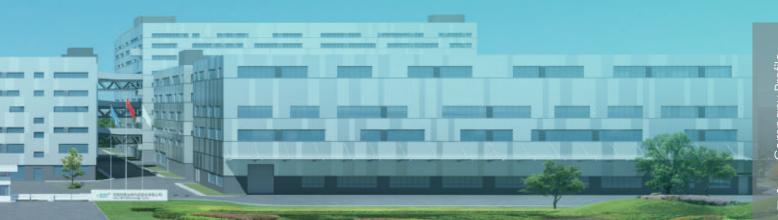
NEST brand is continuously expanding its overseas market. With a steady increase in overseas business volume, NEST's presence has extended to the Americas, Europe, the Middle East, and East Asia. In 2013, the US branch was officially established, and a new warehouse was completed in the US in 2022. Additionally, NEST has subsidiaries in Rotterdam, the Netherlands; Sharjah, the United Arab Emirates; and Tokyo, Japan. These subsidiaries have successfully provided integrated storage, transportation, and sales services, ensuring NEST brand's supply in overseas markets. Currently, NEST products are sold in many countries worldwide, including North America, Europe, Japan, South Korea, and India.

Customized Consumables

NEST offers a wide range of consumables, including plates, bottles, dishes, tubes, and other cell culture consumables. You can freely choose our standardized products in specific packaging or request customized solutions such as closed systems. Should you have any requirements, please feel free to contact us.



Wuxi NEST Biotechnology Co., Ltd.



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.



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 m² Class 10,000 cleanroom and 6800 m² 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.

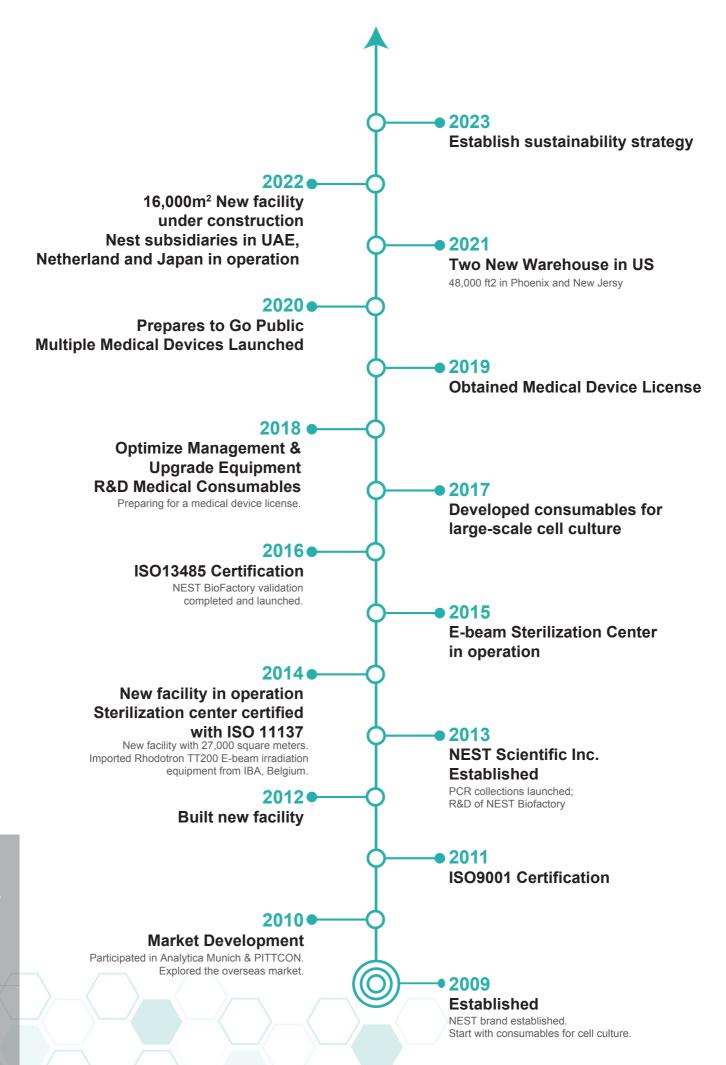
Sterilization by electronic beam irradiation.

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.





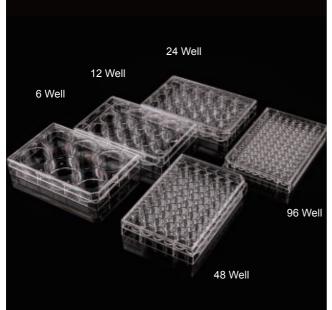
R --- Company Profile

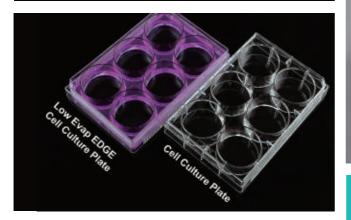






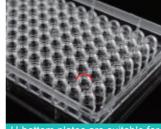
Cell Culture Plate

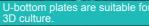




Low Evap EDGE Cell Culture Plate

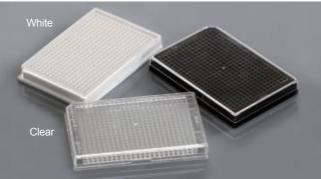
• Grooves are designed at the edge of the culture plate to avoid the edge effect to the greatest extent and to ensure that the cells maintain their optimal state during cell culture.





V-bottom plates are suitable for agglutination experiments.

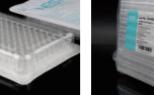
- Sterilized by E-beam, SAL=10⁻⁶
- High clarity, 100% virgin polystyrene.
- "TC" refers to vacuum plasma tissue culture treatment.
- Clear lot number for batch traceability.
- Markings of well coordinates available for 6, 12, 24, 48 and 384 well plates.
- Non-Pyrogenic, DNase/Rnase free.



• 384 Well Cell Culture Plate

- 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
- 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.





Individually Packaged

Plastic Bag Package



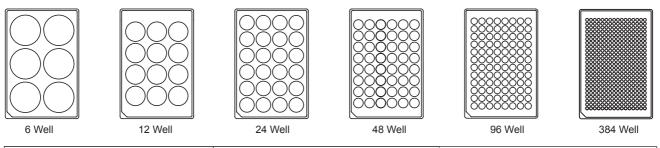
Cell Culture Plate with Clear Polystyrene Bottom

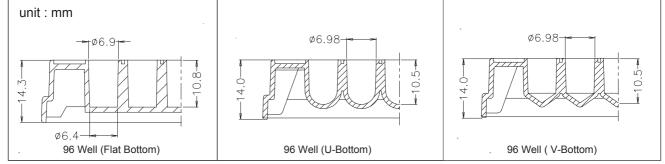
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Cell Culture Plate

	Cell Growth	Recommended	Bottom Packing		Packing			Packing Cat. No.		Packing		Cat. No.				
Well Number	Area (cm²)	Medium Volume (mL)	Туре	Colour	Packaging	/Pack	/Case	TC Treated	Non-Treated							
					Individually Packaged	1	50	703001	703011							
6 Well	9.5	1.9-2.9			Plastic Bag Package	10	50	703002	703012							
6 Well Low Evap EDGE Plate						Individually Packaged	1	50	714011	714001						
12 Well	26	076114	Ц	Clear	Individually Packaged	1	50	712001	703011 703012 714001 712011 712012 702011 702012 748011 701012 701011 701012 701111 701211 701311 / / /							
12 vven	3.6	0.76-1.14			Plastic Bag Package	10	50	712002	712012							
24.)///-	10	0.00.0.57			Individually Packaged	1	50	702001	702011							
24 Well	1.9	0.38-0.57			Plastic Bag Package	10	50	702002	702012							
48 Well	0.88	0.19-0.285			Individually Packaged	1	50	748001	748011							
46 Well	0.00	0.19-0.205			Plastic Bag Package	10	50	748002	748012							
	0.00				Individually Packaged	1	100	701001	701011							
	0.32		Ц		Plastic Bag Package	10	100	701002	701012							
	0.66	-	U	Clear	Individually Packaged	1	100	701101	701111							
96 Well	0.41	0.1-0.2	V		Individually Packaged	1	100	701201	701211							
		0.1-0.2		White	Individually Packaged	1	100	701301	Treated Non-Treated 3001 703011 3002 703012 4011 714001 2001 712011 2002 712012 2001 702012 2001 702011 2002 702012 8001 748012 1001 701011 1002 701211 1301 701311 / / / / 3011 713001 1001 761011 1002 761012 1001 761011 1002 761012							
	0.00			Black	Individually Packaged	/	1	/								
	0.32		Ш	White, transparent bottom	Individually Packaged	/	1	/								
									Black, transparent bottom	Individually Packaged	/	1	1	1		
96 Well Low Evap EDGE Plate	0.32	0.1-0.2	Ш	Clear	Individually Packaged	1	100	713011	713001							
				Clear	Individually Packaged	1	100	761001	761011							
				Clear	Plastic Bag Package	10	100	761002	761011 761012							
				Black	Individually Packaged	1	100	761301	761311							
				White	Individually Packaged	1	100	761601	761611							
384 Well	0.11	0.025-0.05	L	L	L	L	L	L	L	Ц	White, transparent bottom	Individually Packaged	/	1	1	712011 712012 702011 702012 748011 748012 701011 701012 701111 701211 701311 / / / 713001 761011 761012 761311 761611 761611
											Black, transparent bottom	Individually Packaged	/	/	/	/

Technical Drawing of Cell Culture Plates





Cytology

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Cell Culture Insert

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.

Features

- Sterilized by E-beam, SAL=10⁻⁶.
- 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.



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 µm		
Co-culture and cell differentiation, cell imaging	Primary cells, tumor, stem cells	0.4 µm, 1.0 µm		
Cell migration and invasion (angiogenesis)	Endotheliocytes			
Cyto-chemotaxis (migration) or endothelial migration	Leukocytes	3.0 µm		
Axonal hyperplasia	Neurons			
Tumor cell migration and invasion	Tumor-derived cells			
Hematostaxis or migration through endotheliocytes	Leukocytes	8.0 µm		
Co-culture	Tumor stem cells			
Transport and secretion of macromolecules or viruses		1.0 µm, 3.0 µm		

Product Specification

Cardio Control	Specifications	配套小室数量 (个/块板)	-	Diameter mm)	Eac	ume of h Well mL)	Inner Volume of Insert (mL)	Membrane Growth Area of Insert (cm ²)
THE AND	6 Well Plate	6	2	24		2.6	1.5	4.67
	12 Well Plate	12		12		1.5	0.5	1.12
	24 Well Plate	12	6	6.5		0.6	0.1	0.33
RIL	100mm Dish	1	-	75		13	9	44
	Pore Size of Men	nbrane (µm)	0.4	1.0		3.0	5.0	8.0
Cell Culture Insert	Membrane Density (Well/cm ²)		1x10 ⁸	2x10 ³	7	2x10 ^e	9 4x10⁵	1x10⁵
	PC Membrane Tr	PC Membrane Transparence		/		Transluce	ent Transluce	ent Translucent
	PET Membrane T	ransparence	Opaque	Transpar	ent Transluce		ent /	Transparent

• Cell Culture Insert

Pore Size	Description	Pac	king	PC Me	mbrane	ΡΕΤ Με	embrane
(µm)	Description	/Pack	/Case	TC Treated	Non-Treated	TC Treated	Non-Treated
	6 Cell Culture Inserts + 6 Well Plate	6	60	723101	723111	723121	723131
0.4	12 Cell Culture Inserts + 12 Well Plate	12	120	724101	724111	724121	724131
	12 Cell Culture Inserts + 24 Well Plate	12	120	725101	725111	725121	725131
	6 Cell Culture Inserts + 6 Well Plate	6	60	1	1	723421	723431
1	12 Cell Culture Inserts + 12 Well Plate	12	120	1	1	724421	724431
	12 Cell Culture Inserts + 24 Well Plate	12	120	1	1	725421	725431
	6 Cell Culture Inserts + 6 Well Plate	6	60	723001	723011	723021	723031
3	12 Cell Culture Inserts + 12 Well Plate	12	120	724001	724011	724021	724031
0	12 Cell Culture Inserts + 24 Well Plate	12	120	725001	725011	725021	725031
	100 mm Cell Culture Insert-Dish	1	10	726001	1	1	1
5	12 Cell Culture Inserts + 12 Well Plate	12	120	724201	724211	1	1
0	12 Cell Culture Inserts + 24 Well Plate	12	120	725201	725211	1	1
	6 Cell Culture Inserts + 6 Well Plate	6	60	723301	723311	723321	723331
8	12 Cell Culture Inserts + 12 Well Plate	12	120	724301	724311	724321	724331
	12 Cell Culture Inserts + 24 Well Plate	12	120	725301	725311	725321	725331

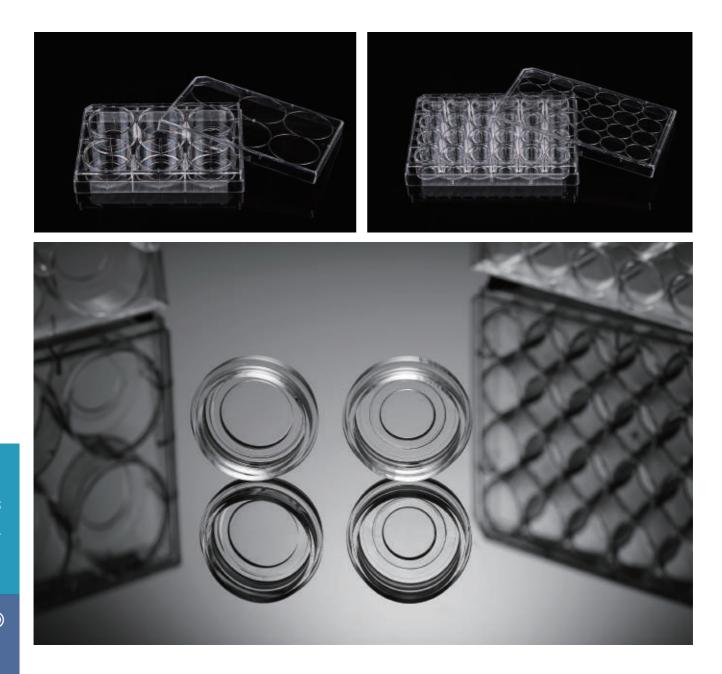
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Glass Bottom Cell Culture Dish & Plate

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=10⁻⁶.
- Made of high clarity, 100% virgin polystyrene and high clarity glass as bottoms.
- High quality cover glass of standard thickness.

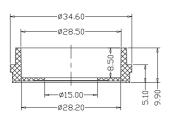


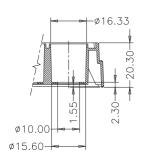
Glass Bottom Culture Dish

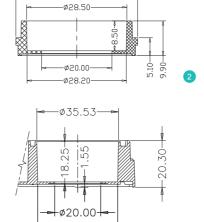
Cat.No.	Type (mm)	Glass Diameter (mm)	Cultivation Area (cm²)	тс	/Pack	/Case	
801002	28.2	15	6.2	Yes	10	200	\bigcirc
801001	28.2	20	6.2	Yes	10	200	\bigcirc

Glass Bottom Culture Plate

Cat.No.	Spec (Well)	Glass Diameter (mm)	Cultivation Area (cm²)	тс	/Pack	/Case	
801004	6	34.8	9.5	Yes	1	10	
801006	24	15.6	1.9	Yes	1	10	







-ø34.80-

ø34.60-

Unit: mm



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

Tips:

terilization: If the glass needs to be sterilized after a long period of non-use, it is recommended to wrap it in tin foil and sterilize it at 180°C in a metal container for two hours.

Coating: Coating can be done with polylysine, collagen, extracellular matrix, and some commercially available reagents containing layer adhesive protein, fibronectin, and proteoglycan, which can improve cell adhesion.

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Cell Culture Dish

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=10⁻⁶.
- Non-Pyrogenic, DNase/Rnase free.

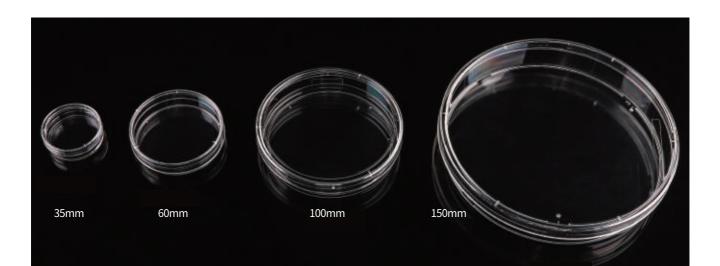




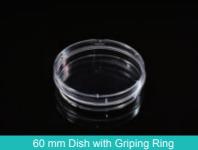


Vent points for Gas Exchange

Feature









• Cell Culture Dish

	Height (mm)	Cell Growth Area	Rcommended Medium Volume	Turses	Packing			
Specification (mm)		(cm ²)	(mL)	Types	/Pack	/Case	Cat.No.	
05	10	0.5			20	25	706001	
35	12	8.5	1.8-2.7	Easy Grip	20	25	706201	
<u> </u>	45	22.0	9 4.2-6.3	Regular	20	25	705001	
60	15	22.9		Easy Grip	20	25	705201	
				Regular	5	60	704004	
		57.6			10	30	704002	
100	20		11-16.5		20	15	704001	
		50.2		Face Orig	10	30	704202	
		59.3		Easy Grip	20	15	704201	
150	25	150.1	30.4-45.6	Regular	5	20	715001	

Actual diameter is smaller than the indicated

35 mm dish bottom inner diameter: 35.0 mm

60 mm dish bottom inner diameter: 54.0 mm

100 mm dish bottom inner diameter: 85.6 mm

150 mm dish bottom inner diameter: 138.2 mm

100 mm easy grip dish bottom inner diameter: 86.9 mm

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Cell Culture Flask

NEST's Cell Culture Flasks whose cell growth areas ranging from 25cm² to 225cm² 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=10⁻⁶.
- 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.
- Sterilized by E-beam, SAL=10⁻⁶.
 Non-Pyrogenic, DNase/Rnase free.

• 3 / 5 - Layer Cell Culture Flask

• 3-Layer Cell Culture Flask Growth area: 520 cm².

• Made of high clarity, 100% virgin polystyrene.

- 5-Layer Cell Culture Flask Growth area: 870 cm².
- Individually packaged in sterile bag.



T150 U-Shaped Canted Neck Cell Culture Flask



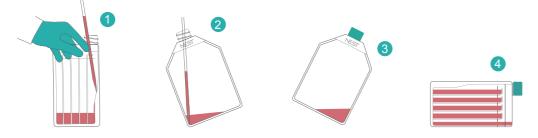
Yellow caps for non-treated flask



Vent caps with 0.22 µm hydrophobic filters to eansure gas exchange without contamination

Feature

User guide for seeding cells into a 5-layer Cell Culture Flask



1.Prepare cell suspension of the required concentration, then mix it with medium evenly in a container. A volume of 30-50 mL per layer is recommended .

2. Slowly add the mixed solution into the 5-layer Cell Culture Flask with a serological pipette. To avoid foam or bubbles, it is recommended to set the pipette firmly against the wall, enable the stream to flow along the slope, and save a little liquid in the pipette each time.

Notes: While a 10 ml pipette can disperse the medium at the bottom, a 25 ml pipette will only reach up to the NEST mark to disperse the medium. 3. Position the Multi-layer Flask upright with the NEST mark facing you, tilt it 45° clockwise and let stand in this position for a while to level the liquid in each layer.

4. Gently lay it flat onto the workbench with NEST mark facing upwards.

5. Gently shake it from side to side to distribute cells evenly onto culture surfaces.

Notes: be careful to shake gently to avoid foam or bubbles and spilling liquid from each layer.

6. Transfer the flask to the incubator for incubation

Culture medium removal

1. Aspiration

Tilt the flask 45° clockwise with the NEST mark facing you. counter-clock wise to a 45° angle while inverting the Multi-Flask toward you. Then reach the serological pipette into the bottom for fully aspiration.

2. Pouring

Tilt the flask 45° counterclockwise with the NEST mark facing you, pour the spent media from the flask.

Tips: A NEST 10mL serological pipette is suggested for fully aspiration.

Cell harvesting

- Rinse off the residual serum with buffer, add digestion solution (≥5mL per layer) and mix evenly. Then, follow Steps 3-4 to distribute to dissociating reagent to each layer.
- Let stand for 2 min, then neutralize and mix with inactivating solution following steps 3-4. Gently swirl to dislodge cells completely.
- 3. Transfer the solution in a centrifuge tube or other containers by aspiration or pouring.
- 4. Rinse the flask with buffer for three times, then transfer the buffer into the centrifuge tube for passage and counting.

Tips: Search "NEST Multi-layer Flask" video on YouTube(@nest-wuxi4075).

Cell Growth	Maximum	Rcommended Medium		Size(mm))	Pac	king	TC T	reated	Non-T	reated
Area (cm²)	Graduated Volume (mL)	Volume (mL)	Base Height	Width	Length	/Pack	/Case	Plug seal caps	Vent caps	Plug seal caps	Vent caps
25	30	5-7.5	25.9	53.8	97.13	10	20	707001	707003	707011	707013
75	225	15-22.5	35.7	89.56	160.01	5	20	708001	708003	708011	708013
150	375	30-45	40.3	110.75	203	5	8	720001	720003	720011	720013
175	400	35-52.5	39.1	120.51	217.9	5	8	709001	709003	709011	709013
225	700	45-67.5	46.05	137	238.5	5	5	721001	721003	721011	721013
520 (3-layer)	50	60-100	60.1	120.5	203	1	12	731301	731302	1	/
870 (5-Layer)	50	100-150	84.3	120.5	203.6	1	8	731001	731002	1	1

Cell Culture Flask



Precautions:

It is important to handle multi-layer Cell Culture Flasks with caution to avoid the formation of bubbles. The presence of bubbles can lead to the creation of siphon bridge at the baffle, resulting in the upper layer of culture medium flowing down to the bottom.

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=10⁻⁶.
- Non-Pyrogenic, DNase/Rnase free.
- Individually packaged.



Spec Total Length	:(mm) Blade Width	Colour	Sterile	/Case	Cat.No.
220	13	Blue handle + transparent blade	Yes	100	710001
280	20	Blue handle + transparent blade	Yes	100	710011

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.

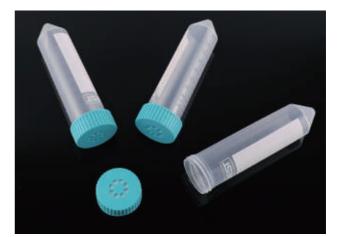
Spec (µm)	目数	Color	/Pack	/Case	Cat.No.
40	360	Blue	1	50	258366
70	220	White	1	50	258365
100	150	Yellow	1	50	258364

50mL Min Bioreactor

Features

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

Volume (mL)	/Pack	/Case	Cat.No.
50 mL Vent caps Sterile	10	10	788211



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Bioprocessing Solutions

OptiFlask[®] Erlenmeyer Flask

NEST Erlenmeyer Flask collection is designed for suspension cell culture, and is ideal for small-scale research and industrial production of vaccines, proteins, monoclonal antibodies and biopharmaceuticals.

NEST provides Erlenmeyer Flasks in sizes ranging from 125 to 3000mL, as well as High Efficiency Erlenmeyer Flasks in sizes of 2-5L. Each size option comes with a choice of a seal or vent cap, as well as the option of a flat bottom or a bottom with baffles. The Erlenmeyer Flasks are available in both PC and PETG.

Accordingly, NEST offers customized transfer caps that are compatible with our Erlenmeyer Flask collection. These caps come in various sizes and can also be tailored to accommodate diverse requirements, allowing for liquid transfer and cultivation in a closed environment.

Strict product quality supervision

Production environment--Class 10,000 clean production workshop

NEST FactoryTM 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

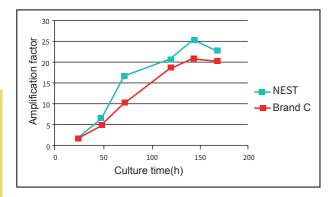
Quality Assurance from Professional Testing Agencies

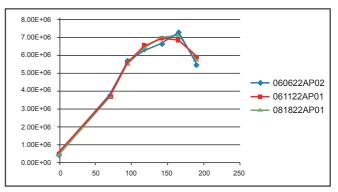
NEST ensures top product quality, stability, safety, applicability, and effectiveness through the implementation of state-of-the-art production technology and a strict quality control system. All our product ranges have undergone rigorous validation by professional testing institutions possessing national testing qualifications (CMA, CNAS). The internationally recognized testing results provide further assurance.

Performance Testing

Relevant performance testings include sealing test, pressure resistance test, inter-batch stability, endotoxin, nucleic acid enzyme, and cell culture comparative experiments.

Sample batch	Culture time(h)	72	76	120	144	168	192
		2.02×106	E 70×106	6 46×106	6 70×106	7.48×10 ⁶	E E0×106
060622AP02	Cell count	3.82×10 ⁶	5.78×10 ⁶	6.46×10 ⁶	6.79×10 ⁶	7.40×10°	5.59×10 ⁶
000022AI 02	Amplification factor	12.72	19.25	21.53	22.63	24.94	18.62
0011004 001	Cell count	3.69×10 ⁶	5.67×10 ⁶	6.66×10 ⁶	7.09×10 ⁶	7.05×10 ⁶	5.95×10 ⁶
061122AP01	Amplification factor	12.30	18.91	22.19	23.62	23.51	19.83
0919224D01	Cell count	3.72×10 ⁶	5.60×10 ⁶	6.58×10 ⁶	7.13×10 ⁶	7.32×10 ⁶	5.88×10 ⁶
0818224P01	Amplification factor	12.40	18.66	21.93	23.78	24.40	19.59





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).

Testing item	Detection limit (mg/L)	Test result (mg/L)
Lead	0.05	N.D.
Tin	0.04	N.D.
Cadmium	0.02	N.D.
Chromium	0.03	N.D.

Testing item	Requirement or detection limit	Testing result
Reducing substances (consumption of c(1/5KMnO4)=0.01mol/L)	≤0.5 mL	0.12
Acid-base pH (compared with blank solution)	<1	0.22
Evaporated residue, mg/50mL	<2.5 mg	0.9
UV absorbance 230nm~360nm	<0.05	0.0070
Appearance	Colorless and transparent	Colorless and transparent
Lead content , µg/mL	<0.05	Below the detection limit
Tin content, µg/mL	<0.04	Below the detection limit
Cadmium content, µg/mL	<0.02	Below the detection limit
Chromium content, µg/mL	<0.03	Below the detection limit

Sterility and particle guarantee

NEST ensures thorough testing of its products through examinations of the irradiation process, packaging, and insoluble particles. The verification of the irradiation dose distribution is conducted in accordance with ISO 11137-1:2015, meeting the necessary requirements for sterilization irradiation dose (SAL=10⁻⁶).

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OptiFlask[®] Erlenmeyer Flask





- Erlenmeyer Flask collection is suitable for suspension cell culture or bacterial culture, and can also be used for medium preparation, mixing, and storage.
- The body is made of PETG/PC, and the cap is made of PP.Both materials comply with USP Class VI.
- 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.
- Vent caps with 0.22 μm hydrophobic filters for gas exchange without contamination.
- The baffled bottom can improve gas exchange efficiency and ensure better oxygen dissolution in the culture medium, but it also increases cell shear force.

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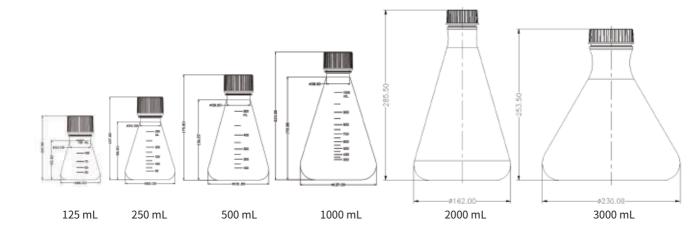
Feature

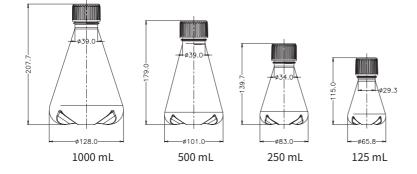
Individually packaged in sterile bags
There's a scale made by injection molding on the flask body to facilitate observing the filled liquid volume.
Non-Pyrogenic, DNase/Rnase free.

• Sterilized by E-beam, SAL=10⁻⁶.

• Erlenmeyer Flask

Volume		Size(mm)			Packing		PETG Erlenmeyer Flask		PC Erlenmeyer Flask		
(mL)	Height	Bottleneck Diameter	Bottom Diameter	Cap Style	/Pack	/Case	Flat-bottom	Baffled	Flat-bottom	Baffled	
105	100.0	24	<u> </u>	Seal Cap	1	24	781001	781301	781101	781201	
125	106.8	34	66	Vent Filter Cap	1	24	781011	781311	781111	781211	
050	407.0	34		00	Seal Cap	1	12	782001	782301	782101	782201
250	137.8		83	Vent Filter Cap	1	12	782011	782311	782111	782211	
500	175.0	39	101	Seal Cap	1	12	783001	783301	783101	783201	
500	175.8		101	Vent Filter Cap	1	12	783011	783311	783111	783211	
1000	213.3	39	127	Seal Cap	1	6	784001	784301	784101	784201	
1000	213.3	39		Vent Filter Cap	1	6	784011	784311	784111	784211	
2000	285	47	162	Seal Cap	1	6	/	1	785001	/	
2000	200	4/	102	Vent Filter Cap	1	6	/	/	785011	/	
3000	253	62	230	Seal Cap	1	4	/	1	786001	1	
	200	02		Vent Filter Cap	1	4	/	1	786011	1	





Optiflask Erlenmeyer Flask, 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.

6

Feature

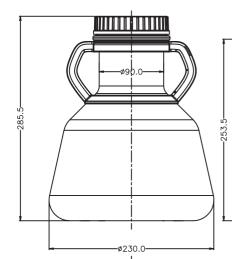
- Qualified by the USP Class 6 Standard, PC bottle with high transparency, is resistant to strong impact, oxidation and high temperature up to 121°C.
- Obvious and accurate scale.
- The vent cap is covered with a 0.2 μm vent membrane, watertight but not airtight.
- Equipped with transfer Cap, more safe and convenient operation.

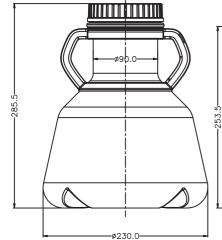
• Erlenmeyer Flask, High Efficiency

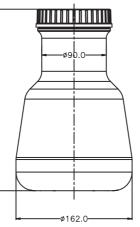
- Individually packaged in sterile bag.
- Non-Pyrogenic, DNase/Rnase free.
- Suitable for suspension cell culture or bacterial culture, as well as for medium preparation, mixing, and storage
- Sterilized by E-beam, SAL=10⁻⁶.

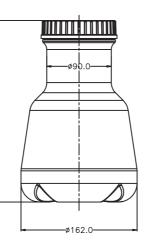
Volume (L)		Dimension (r	nm)		10	Cat.No.		
	Height	Bottleneck Dia	Bottom Dia	Cap Style	/Case	Flat-bottom	With Baffles	
2.0	213.5	67	162	Seal Cap	4	785101	785105	
	213.5	67	162	Vent Filter Cap	4	785111	785115	
	253.5	67	162	Seal Cap	4	786101	786105	
3.0	253.5	67	162	Vent Filter Cap	4	786111	786115	
20 (Mide mouth)	253.5	90	162	Seal Cap	4	786501	786505	
3.0 (Wide-mouth)	253.5	90	162	Vent Filter Cap	4	786511	786515	
5.0	253.5	90	230	Seal Cap	4	787001	787005	
	253.5	90	230	Vent Filter Cap	4	787011	787015	

253.5-











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Accessories

- · 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=10⁻⁶.
- · Endotoxin-free, and no ingredients of animal origin.
- Individually packaged in sterile bag.



• Bi-directional Liquid Transfer Cap System

- 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.



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.



Inverted Liquid Transfer Caps

- No need for other equipment, and no damage to cells.
- Invert the bottle to transfer the liquid by gravity.
- · Available with regular tubing or wide-mouth tubing.

Erlenmeyer Flask Closed System Solution

To customize a Erlenmeyer Flask Closed System Solution that meets your needs, follow

these steps:

(no connector)



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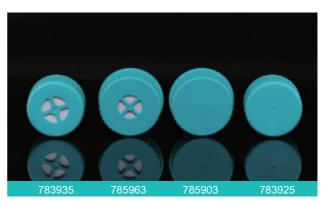
• High Efficient Erlenmeyer Flask Closed System

Volume (mL)	Cap Style			Tub		Transfer Caps for High Efficient Erlenmeyer Flasks					
(mL)	Oup Olyic			Tuu	e Material		Cat.No.				
	oup otyle		Liquid ⁻ Length	Transfer Tube	Connector	0.2µm Filter Membrane	Cat.No.				
		材质	(cm)	Dia.		area		Flat-bottom	With Baffles		
125 mL					MPC Male Connector		C30821-EAC050B				
1201112					Male Luer Connector		C30821-EFC050B				
250 mL	Bi-				MPC Male Connector		C30921-EAC050B				
2002	directional		50		Male Luer Connector	Φ42mm	C30921-EFC050B				
500 mL	Liquid	Silicon Tube	50	1/8" ID, 1/4" OD	MPC Male Connector	Ψτζιτιπ	C31021-EAC050B				
500 IIIL	Transfer				Male Luer Connector		C31021-EFC050B				
1000 ml					MPC Male Connector		C31121-EAC050B				
1000 mL					Male Luer Connector		C31121-EFC050B				
	Multifun-	TPE Tube	52	1/8" ID, 1/4" OD	Heat Seal (Supports sampling)	Ф50mm	C10111-AJE052B				
	ction Liquid	TPE Tube	50	1/4" ID, 7/16" OD	Heat Seal	Ф24mm	C10111-DZB050B				
		Silicon Tube	100	3/16" ID, 3/8" OD	MPC Male Connector	Ф24mm	C10111-GBB100B				
2L	D:	TPE Tube	50	1/8" ID, 1/4"OD	Heat Seal	Ф24mm	C10122-AZB050B	C10122-AZB050A	C20122-AZB050/		
High	Bi- directional	TPE Tube	50	1/4" ID, 3/8" OD	Heat Seal	Ф42mm	C10123-BZC050B	C10123-BZC050A			
Efficiency	Liquid Transfer	Silicon Tube	50	1/4" ID, 3/8" OD	MPC Male Connector	Φ42mm	C10123-FBC050B				
		Silicon Tube	50	1/4" ID, 3/8" OD	MPC Female Connector	Φ42mm	C10123-FDC050B				
	Inverted	TPE Tube	50	1/8" ID, 1/4" OD	Heat Seal	Φ42mm	C10131-AZC050B				
	Liquid Transfer	TPE Tube	50	1/4" ID, 7/16" OD	Heat Seal	Φ42mm	C10133-DZC050B				
	Multifun- ction Liquid Transfer	TPE Tube	52	1/8" ID, 1/4" OD	Heat Seal (Supports sampling)	Ф50mm	C10211-AJE052B				
		TPE Tube	50	1/4" ID, 7/16" OD	Heat Seal	Ф24mm	C10211-DZB050B				
		Silicon Tube	100	3/16" ID, 3/8" OD	MPC Male Connector	Ф24mm	C10211-GBB100B				
3L	Di	TPE Tube	50	1/8" ID, 1/4"OD	Heat Seal	Ф24mm	C10222-AZB050B	C10222-AZB050A	C20222-AZB0504		
High	Bi- directional	TPE Tube	50	1/4" ID, 3/8" OD	Heat Seal	Φ42mm	C10223-BZC050B	C10223-BZC050A			
Efficiency	Liquid	Silicon Tube	50	1/4" ID, 3/8" OD	MPC Male Connector	Ф42mm	C10223-FBC050B				
5	Transfer	Silicon Tube	50	1/4" ID, 3/8" OD	MPC Female Connector	Φ42mm	C10223-FDC050B				
	Inverted Liquid Transfer	TPE Tube	50	1/8" ID, 1/4" OD	Heat Seal	Φ42mm	C10231-AZC050B				
		TPE Tube	50	1/4" ID, 7/16" OD	Heat Seal	Ф42mm	C10233-DZC050B				
	Multifun- ction Liquid Transfer	TPE Tube	52	1/8" ID, 1/4" OD	Heat Seal (Supports sampling)	Ф50mm	C10311-AJE052B				
		TPE Tube	50	1/4" ID, 7/16" OD	Heat Seal	Ф24mm	C10311-DZB050B				
21		Silicon Tube		3/16" ID, 3/8" OD	MPC Male Connector	Ф24mm	C10311-GBB100B				
3L		TPE Tube	50	1/8" ID, 1/4"OD	Heat Seal	Ф24mm		C10322-AZB050A	C20322-AZB0504		
Wide-	Bi- directional	TPE Tube	50	1/4" ID, 3/8" OD	Heat Seal	Φ42mm		C10323-BZC050A			
modul	Liquid	Silicon Tube	50	1/4" ID, 3/8" OD	MPC Male Connector	Φ42mm	C10323-FBC050B				
High	Transier	Silicon Tube	50		MPC Female Connector	Φ42mm	C10323-FDC050B				
Efficiency	Inverted	TPE Tube	50	1/8" ID, 1/4" OD	Heat Seal	Φ42mm	C10331-AZC050B				
	Liquid Transfer	TPE Tube	50	1/4" ID, 7/16" OD	Heat Seal	Φ42mm	C10333-DZC050B				
	Transier	TPE Tube	30	1/8" ID, 1/4" OD	Heat Seal	No Filter	/	C10442-AKA060A			
	Multifun-	TPE Tube	92	1/8" ID, 1/4" OD	Heat Seal	Φ50mm	, C10411-AJE092B				
	ction Liquid	TPE Tube	90	1/4" ID, 7/16" OD	(Supports sampling) Heat Seal	Φ24mm					
	Transfer	Silicon Tube	100	3/16" ID, 3/8" OD	MPC Male Connector	Φ24mm	C10411-DZB090B C10411-GBB100B				
5L		TPE Tube	90	1/8" ID, 1/4"OD	Heat Seal	Φ24mm		C10422-AZB090A			
High	Bi-					Φ42mm		040400 0700004			
Efficient	directional Liquid	TPE Tube	90	1/4" ID, 3/8" OD	Heat Seal		CTOTEC BECOUCH	210120 D20000A			
	Transfer	Silicon Tube	90	1/4" ID, 3/8" OD	MPC Male Connector	Ф42mm	C10423-FBC090B				
	Inverted	Silicon Tube	90		MPC Female Connector	Ф42mm	C10423-FDC090B				
	Liquid	TPE Tube TPE Tube	90 90	1/8" ID, 1/4" OD 1/4" ID, 7/16" OD	Heat Seal Heat Seal	Ф42mm Ф42mm	C10431-AZC090B C10433-DZC090B				

Accessories

Erlenmeyer Flasks Accessories







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

ioprocessing Solutions

BioFactory

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

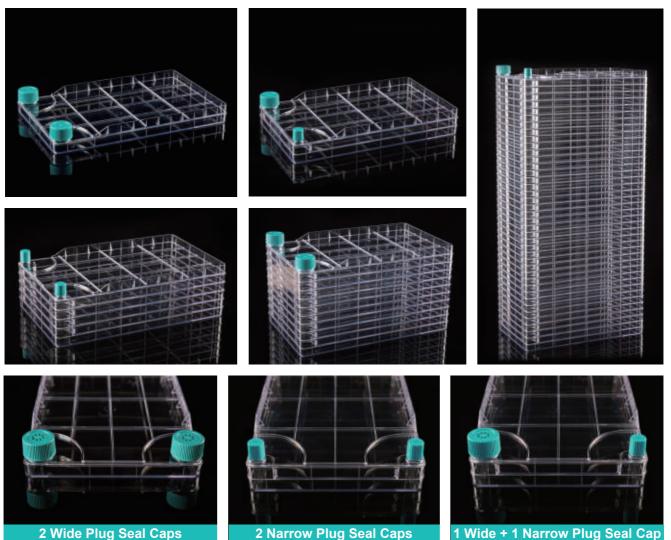
The breakage rate is less than 3% after repeated long distance delivery challenges.

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.

- Made of high clarity, 100% virgin polystyrene.
- Sterilized by E-beam, SAL=10⁻⁶.
- Non-Pyrogenic, DNase/Rnase free.
- 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.
- · Standardize operations to reduce batch differences.

- · 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.
- Standardize operations to reduce batch differences.
- 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.



BioFactory

Lover	Cultivation			ension (mm)		Seal Caps	Vent Filter	Cat.No.		
Layer	Area (cm²)	Length	Width	Height	/Case	Cap	Caps	2 Wide Plug	2 Narrow Plug	1 Wide + 1 Narrow Plug
1	632	335	205	44	8	16	16	771001	772001	773001
2	1264	335	205	61	8	16	16	771101	772101	773101
5	3160	335	205	112	4	8	8	771204	772204	773204
10	6320	335	205	197	6	12	12	771302	772302	773302
40	25280	335	205	712	2	4	4	771403	772403	773403

Large mouth design for easy pouring of the medium directly;

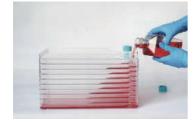
Small mouth design for easy connection with the feeding systems;

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

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Guidelines for use

Cell culture



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



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.



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



Put the BioFactory into the incubator.



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.



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

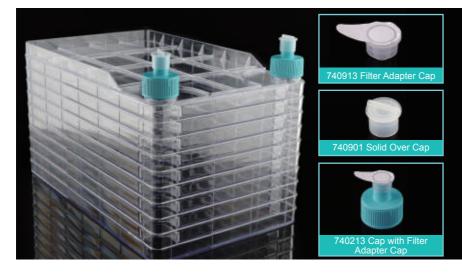
- Ensure that the culture surface of each layer is completely immersed in the CMF-PBS, and gently shake the cell factory forward and backward to wash off the residual culture medium.
- 2. Distribute the digestion solution evenly to each layer; gently tilt the incubator forward and backward, left and 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.
- 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.





Biofactory Closed System Solution

• BioFactory (Cap with Over cap)



Vented Overcap and Solid Overact 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.

Accessory information can be found on page 35.

Layer	Description	Comes with Vented Overcap	/Case	Cat.No.
10	2 Sterile Vented over caps	12	6	771322
40	2 Sterile Vented over caps	4	6	771422

• BioFactory (-20°C Frost Resistance)



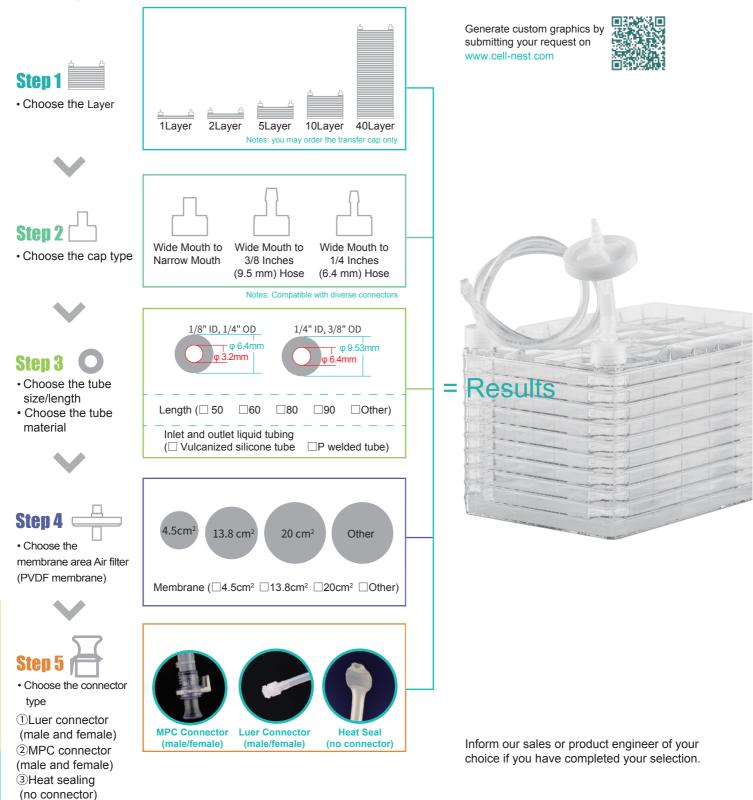
The NEST freeze-resistant BioFactory adopts a dispensing technique to glue different layers, thus its freeze resistance is upgraded. It can withstand freezing at $-18 \sim$ -20 °C, and can be repeatedly frozen and thawed three times, with better firmness. Reminder: Due to the principle of thermal expansion and cold contraction, after the BioFactory uses a sealed cap to fill the culture media and freezes, the bottom or top layer may be slightly deformed. This is an inevitable and normal phenomenon, and there will be no leakage and will not affect normal use.

Lover	Cultivation	tivation Dimension (mm) Description a (cm²) Length Width Height		(mm)	Description	Package		
Layer	Area (cm ²)			Description	T ackage	Cat.No.		
10	6320	335	205	201	Double Large mouth, TC , sterile	Double bag package, 1 pc / bag, 6 pcs / case	771392	

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Biofactory Closed System Solution

To customize a NEST Biofactory Closed System Solution that meets your needs, follow these steps:



Biofactory Closed System Solution



• 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.

Accessory information can be found on page 35.

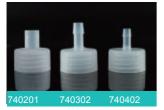
Layer	Cultivation Area (cm²)	External Liquid Dia.	Transfer Tube Length Connector		0.2µm Filter Membrane area	/Case	Cat.No.
5	3160	TPE Tube: 1/4" ID, 3/8" OD	80 cm	Heat Seal	20 cm ²	2	C71754-BZD080A
10	6320	φ 9.53mm φ 6.4mm			ZU CM ²	2	C71554-BZD080A

iloprocessing Solutions

Accessories

BioFactory Accessories





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

Description	Size(mm)		/Dack	10000	Function	Cat.No.	
Description	ID	OD	Taur	TCase	T unction	Cal.NO.	
Adaptor Cap	11.8	14.3	1	10	Wide Mouth to Narrow Mouth	740201	
Adaptor Cap	7.3	14.3	1	10	Wide Mouth to 3/8 Inches(9.5 mm) Hose	740302	
Adaptor Cap	5.9	8.8	1	10	Wide Mouth to 1/4 Inches(6.4 mm) Hose	740402	

 740913
 740901
 740213

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



C71254-ZMC000B

Filter/inlet &outlet tubing for BioFactory BioFactory Cap with PTFE Vent Filter (0.22 μm Φ42mm), without BioFactory , Sterile 1 /Pack, 4 /Case

C71255-ZMD000B

Filter/inlet &outlet tubing for BioFactory

BioFactory Cap with PTFE Vent Filter (0.22 μm Ф50mm), without BioFactory 1 /Pack, 4 /Case



C71254-FBA080B

Filter/inlet &outlet tubing for BioFactory

BioFactory Cap with Silicon Tube (80cm 1/4 " ID3/8" OD), Male CPC Connector with Female Sealing Cap, without BioFactory, Sterile

1 /Pack, 4 /Case

C71255-HCA080B

Filter/inlet &outlet tubing for BioFactory

BioFactory Cap with Silicon Tube (80cm 3/8 " ID5/8" OD), Male CPC Connector with Female Sealing Cap, without BioFactory, Sterile

1 /Pack, 4 /Case







Adaptor Connector to 3/8 Inches (9.5 mm)Hose 1 pcs / pack Compatible with transfer cap and narrow mouth One end is designed to fit the narrow mouth of BioFactory and the other end connects to a hose with a 3/8" ID

C71200-ZME000B

Hose Clamp*1 (743001) Intended for hoses with an OD ranging from 12mm to 18mm. Vent Filter *1 (742001) Hydrophobic membrane: PTFE, Pore size: 0.2 µm Membrane area: 20 cm². Silicone Ring*2 SPT-50 Hose*1 (15cm) (744001) ID: 3/8" (9.5mm) , OD: 5/8" (15.9mm)

C71275-ZME000B

Hose Clamp*1 (743001) Intended for hoses with an OD ranging from 12mm to 18mm. Vent Filter *1 (742001) Hydrophobic membrane: PTFE, Pore size: 0.2 µm Membrane area: 20 cm². 2 different Adaptor Caps*1 (741001) PTFE Material , ID:7.3mm Serrated OD: 10 mm Silicone Ring*2 SPT-50 Hose*1 (15cm) (744001) ID: 3/8" (9.5mm) , OD: 5/8" (15.9mm)



745001 BioFactory AccessoryLite Package

Adaptor Cap*1 (740201) Wide mouth to narrow mouth Adaptor Cap*1 (740302) ID 3/8" 2 different Adaptor Caps*1 (741001) Vent Filter *1 (742001) Hydrophobic membrane: PTFE, Pore size: 0.2 μm Membrane area: 20 cm². Hose Clamp*1 (743001) Intended for hoses with an OD ranging from 12mm to 18mm. SPT-50 Hose*1 (15cm) (744001) ID: 3/8" (9.5mm) , OD: 5/8" (15.9mm) 1 pcs / pack

751101 BioFactory Holder, Individually Wrapped

Material: aluminum alloy and silicone 1 pcs / pack, 5 pcs / case Function: to tilt for easy transfer Features:

The double "N" latch makes the width adjustable; the anti-slip silicone mat attached avoids abrasion and secures the stability.

Multiple adjustable positions for desired height Notes:

- ①Position 2 or 3 is recommended(Recommended working volume for each layer of BioFactory:150ml to 200ml)
- ②It is necessary to tilt the BioFactory forward manually to ensure all the liquid flows out when there is a small amount of liquid.

(6)

Square Bottle & Closed System Solution



Square Storage Bottle is a reagent storage container commonly utilized in laboratories.NEST offers Square Storage Bottles in PET, PETG, and PC materials. Additionally, a fresh range of PET bottles featuring a classic square shoulder design is recently launched, offering a wider variety of specifications and liquid storage solutions.

The bottle body has high transparency, high mechanical strength, and strong impact resistance, making is convenient for observation and transportation.

- The material has strong tolerance, low temperature resistance, UV resistance, and is not easy to crack.
- The smooth inner surface minimizes the residue on the inner wall.
- Non-cytotoxic, non-pyrogenic, and free of animal-derived components

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Square Bottle



Structural Features

- Cap: the mold for cap is specifically designed. The cap is formed through one-shot moulding without inner gasket, enabling it closer attached to the body for better sealing performance.
- Bottleneck: smooth buckle design reduces residue inside.
- Body: it has high transparency, high mechanical strength, strong impact resistance, and is convenient for observation and transportation. The smooth inner surface minimizes the residue on the inner wall. And thet hickness of the bottle wall is uniform for better anti-crack and anti-puncture capacity.
- Bottom: the bottom has curved inner corners that are easy to celan, and the bottom is injection molded with raw material infomr ation



Double-layer Packaging

- Enhanced protection: double-layer packaging offers additional protection for safety in case the bottles were damaged by extenral forces such as extrusion, vibration, and collision during rtansportation.
- Improved durability: double-layer packaging ensures durability and a longer service life.
- Compliance: in line with material entry requirements of the GMP purification workshop of the biological laboratoryr ation.

Double-layer Large Packaging • Economical and cost-effective: reducing costs of packaging and labor

• Improve efficiency: reducing the redundant loading and unloading operations for industrial customers when filling liquid, spurrnig the efficiency and reducing the labor intensity.

Tray-packed

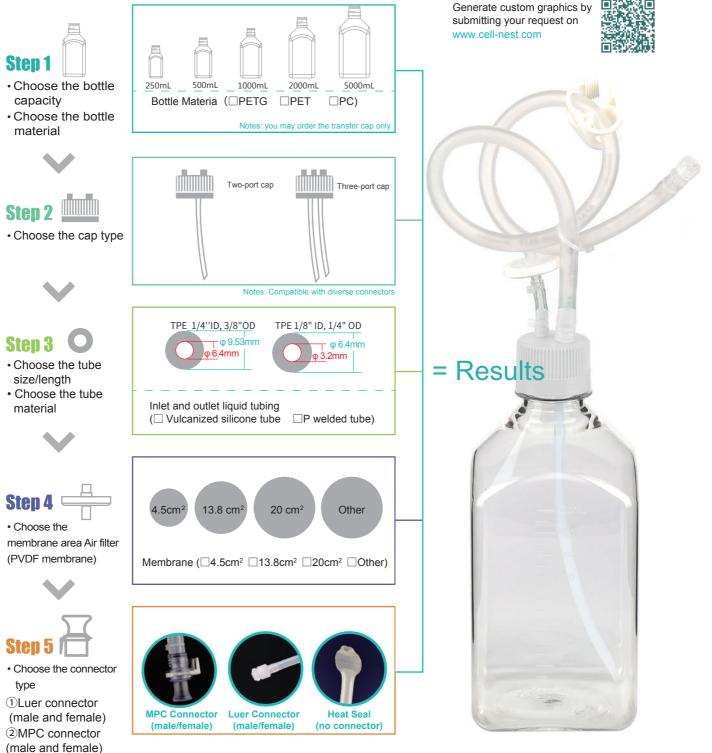
- The tray-packed bottles features an one-piece plastic sealing coating by packaging equipment, which ensures better protection and less collision between and prevents contamination and loss.
- High space utilization by stacking.

Volume (mL)		Double Packaging					Double Whole Bag Package			Tray package			
volume (mL)	/Pack	/Case	PET	PETG	PC	/Pack	/Case	PET	/Pack	/Case	PETG	PC	
30	5	40	1	354111	354314	/	/	1	40	280	354113	354313	
60	6	48	354611	354511	354714	40	200	354614	40	200	354513	354713	
125	6	48	353611	353511	353314	24	192	353614	24	96	353513	353313	
250	6	48	352611	352511	352314	30	120	352614	30	60	352513	352313	
500	8	24	333001	333511	333314	20	80	333004	20	40	333513	333313	
1000	4	12	334001	334511	334314	12	48	334004	12	24	334513	334313	

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Square Storage Bottle Closed System Solution

To customize a NEST Square Storage Bottle Closed System Solution that meets your needs, follow these steps:



Inform our sales or product engineer of your choice if you have completed your selection.

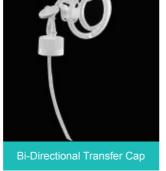
3Heat sealing

(no connector)

Square Storage Bottle Closed System Solution



Closed System Solution (Bi-Directional Transfer Cap)



Product Description

The newly launched NEST Closed System collection provides an aseptic liquid infusion solution for pharmaceuticals, biotechnology industry and laboratories. A standard Luer head is used in the joint of the system, enabling the operation more convenient. Also, the TPE material of tubes is in line with the requirements for industrial pharmaceutical enterprises, and is validated by a certified third party in accordance with BPOG Guide for Evaluating Extractables and Leachables.



Closed System Solution (3-Port Transfer Cap)



Application

- Various tubing specifications
- The injection-molded transfer cap is highly compatible with other major brands.
- The bottle body is made of PETG, which has high transparency, mechanical strength, low-temperature resistance, and UV resistance, making it suitable for observation and transportation.
- The unique external thick collar design of the bottle neck secures a sealed environment for experiments.
- Non-cytotoxic, non-pyrogenic, no animal-derived components.

• Closed System Solution (Bi-Directional Transfer Cap)

	Tu	be Mater	rial	0.2µm Filter Membrane	/Case	Cat.No).
Volume (mL)	Dia.	Length	Connector	area	/Case	Closed System Solution	Aseptic Transfer Caps
250	TPE 1/4"ID, 3/8"OD		Female Luer Lock		10	C50921-BHB060A	C50921-BHB060B
500	φ 9.53mm φ 6.4mm	60cm	Connector with	4.5cm ²	10	C51021-BHB060A	C51021-BHB060B
1000	ψυ		Luer Plug		10	C51121-BHB060A	C51121-BHB060B
250	TPE 1/4"ID, 3/8"OD	60cm	Male MPC connector with Female Sealing Cap	4.5cm ²	10	C50921-BBB060A	C50921-BBB060B
500	φ 9.53mm φ 6.4mm				10	C51021-BBB060A	C51021-BBB060B
1000	ψυ				10	C51121-BBB060A	C51121-BBB060B
250	TPE 1/8" ID, 1/4" OD		Female Luer Lock		10	C50922-AGB060A	C50922-AGB060B
500	φ 6.4mm φ 3.2mm	60cm	Connector with	4.5cm ²	10	C51022-AGB060A	C51022-AGB060B
1000	ψ.3.211111		Luer Plug		10	C51122-AGB060A	C51122-AGB060B
250	TPE 1/8" ID, 1/4" OD		Male MPC		10	C50922-AAB060A	C50922-AAB060B
500		60cm	60cm connector with	4.5cm ²	10	C51022-AAB060A	C51022-AAB060B
1000	<u>φ3.</u> 2mm		Female Sealing Cap		10	C51122-AAB060A	C51122-AAB060B

• Closed System Solution (3-Port Transfer Cap)

		Tu	be Mater	ial	0.2µm Filter Membrane	/Case	Cat.No.		
Volume (mL)	Dia.	Length	Connector	area	/Case	Closed System Solution	Aseptic Transfer Caps		
	1000	TPE 1/8" ID, 1/4" OD φ 6.4mm φ 3.2mm	60cm	Female Luer Lock Connector with Luer Plug	4.5cm ²	10	C511AB-AGB060A	C511AB-AGB060B	

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Carboy



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.

Volume (mL)	With Handle	Sterilization	/Case	With Tap	Without Tap
10	YES	NO	4	789001	789011
20	YES	NO	3	789101	789111

Accessories



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 Application: linking tubings for filling and draining operations



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 Application: linking tubings for filling and draining operations, heat weldable.



747001 CPC Connector CPC & PC Material Packaging: individual sterile packaging, 5 prs/cs (Inner Dia #3/8) for Hose to Hose Connecting 1 pcs / pack, 5 pcs / case 747011 CPC Sealing Plug 10 pcs / case



743001 Hose Clamp Hose clamp for 12-18 mm diameter hose 10 pcs / pack



751001 Y Shape Connector PP Material Y Shape CPC Connector for Inner Dia #3/8 Hose 1 pcs / pack, 5 pcs / case



749001 T Shape Connector PP Material T Shape CPC Connector for Inner Dia #3/8 Hose 1 pcs / pack, 5 pcs / case



742011 0.22μm Vent Filter
Pore size:0.22 μm Membrane area: 13.8 cm²
1 pcs / pack, 5 pcs / case
742001 0.22μm Vent Filter
Hydrophobic membrane : PTFE
Pore size:0.2 μm Membrane area: 20 cm²
Packaging: individual sterile packaging, 1 pcs / pack, 5 pcs / case
Application: Hose fitting

(6)



Biobank System

Cryogenic tubes, also known as freezing tubes, are commonly used for low-temperature preservation. They are a crucial laboratory consumable in the biological, pharmaceutical, food, and other industries. Made of medical-grade polypropylene (PP), cryogenic tubes can withstand low temperatures down to minus 196°C in a liquid nitrogen gas phase environment. They are available in three types: cryogenic tubes (without 2D barcode), 2D barcode cryogenic tubes and 3-code cryogenic tubes.

√High-quality raw materials:

Top-quality and food grade resin, which complies with UPS class 6, pharmaceutical and laboratory standards, is adopted. It contains much lower concentrations of trace element extractables than glass.

✓ High-Precision Technology: Equipped with high-precision injection-stretch-blow molding equipment and automated equipment for manufacturing.

✓ **Multiple Specifications**: Multiple materials and specifications are available, including PET, PETG, HDPE that are resistant to chemical corrosion, as well as PP and PC products that are autoclavable. The packaging mode of square reagent bottles can be customized to meet any needs.SBS Format Cryogenic Tubes fits automated equipment.

✓ High Quality Standards: Certified by ISO13485 and ISO 9001, with batch stability.

Certain Comparison Comparison

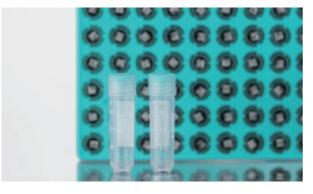
Manufacturing e	enterprise certification		cess, quality standards, tation and use verification	Testing by third-party authoritative profess- ional inspection and testing organizations			
	ISO 9001, ISO13485	Process test	Injection molding machine, mold performance verification	Biological testing	In vitro cytotoxicity test		
Qualification certificate	FDA, CE		Sealing test	GB/T16886.5-2017	Skin sensitivit	y test	
	Irradiation ISO 13485, ISO 11137		Cryogenic test	GB/T16886.4-2003	Skin irritation	test	
Sterility testing	ISO 7 requirements	Performance test	High-temperature sterilization test		Acute systemic toxicity test		
laboratory Environmental	GB 50591-2010		DNase/RNase	GB/T16886.11-2021	Hemolysis test		
testing	GB/T 16294-2010		Endotoxin		Heavy metal con- tent of materials	Pb, Sn, Cd, Cr	
	ISO 8 requirements		Bottom 2D barcode integrity test			Reducing	
workshop environmental	GB 50073-2013		Irradiation process verification	Physical and		substances	
testing	YY0033-2000		Sterile packaging verification	chemical testing	Leachable	pН	
Purified Water System Validation	GMP requirements	Sterility and particle assurance	Product sterility test	GB/T14233.1-2008	testing	Evaporation	
Raw material	Physical and chemical testing		Insoluble particle detection			residue	
verification	Extractable testing]	Drop and transportation verification			UV absorbance	

Complete stability and safety verification reports

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• Volume optimization Volume selection based on quantity and type of sample.



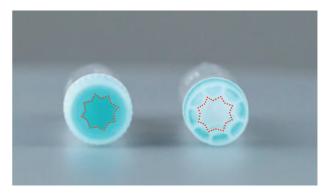
Material upgrade

New polymer material, improved cryogenic and anti-aging performance, high-temperature and high-pressure sterilization.



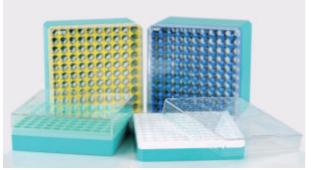
Improved sealing effect

Soft rubber sealing surface design, passing vacuum test, ensuring sample safety.



Suitable for automation

"Eight-petal plum" design, reduces manual process, contamination risk, and labor cost.



More specifications

Filling gap for 4 mL, 5 mL, and 10x10 box series, meeting various research needs.



• Multi-color cap inserts Color-coded cap inserts for easy sample identification.

				- 10 - 20				
уре		External t	thread cap	I		Internal th	iread cap	
y (mL)	1.5	2.0	4.0	5.0	1.5	1.8	4.0	5.0
height (mm)	40.7	45.5	76.3	93.3	40.7	45.5	76.3	93.3
rameters (mm)		1	0		8.3			
iameter Φ (mm)		12.	.85		12.10			
erature Range		-196 to	121°C		-196 to 121°C			

Note:

Сар Ту

1. The thread of the external thread cap is not directly exposed to the outside, which minimizes the possibility of cross-contamination;

2. The internal thread cap has the same diameter as the cryogenic tube, which has an advantage in intensive storage applications;

3. The maximum volume of the external thread cap is closer to the nominal volume than the internal thread cap. Since the content volume usually increases during liquid freezing, the recommended usage volume of both external and internal thread cap cryogenic tubes is 80% of the maximum volume;

4. Both storage methods are aimed at ensuring the safety of cryogenic storage and can be freely selected according to the actual user needs



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• Cryogenic Tubes (without 2D barcode) – Bag Package

	•				· ·
Product Number	Capacity (mL)	Сар Туре	Quantity /Bag	Bags /Box	Box /Case
618901	1.0	External thread	96	1	10
606901	1.5	External thread	50	10	4
607401	2.0	External thread	50	10	4
608401	4.0	External thread	50	5	4
609401	5.0	External thread	50	5	4
606801	1.5	Internal thread	50	10	4
607301	1.8	Internal thread	50	10	4
608301	4.0	Internal thread	50	5	4
609301	5.0	Internal thread	50	5	4

*The dimensions of the cryogenic box are detailed on page 09



• Cryogenic Tubes (without 2D barcode) - Rack Package

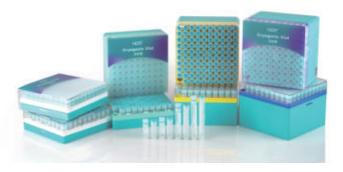
Product Number	Capacity (mL)	Сар Туре	Pack- aging	Quantity /Rack	Racks /Case
618906	1.0	External thread	8*12	96	10
606902	1.5	External thread	10*10	100	14
607402	2.0	External thread	10*10	100	12
608402	4.0	External thread	10*10	100	8
609402	5.0	External thread	10*10	100	6
606802	1.5	Internal thread	10*10	100	14
607302	1.8	Internal thread	10*10	100	12
608302	4.0	Internal thread	10*10	100	8
609302	5.0	Internal thread	10*10	100	6

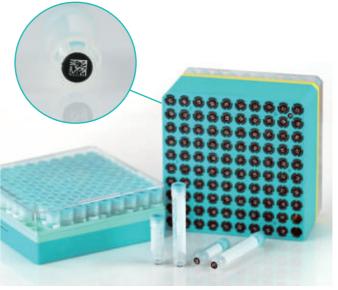
*The dimensions of the cryogenic box are detailed on page 09

2D Barcode Cryogenic Tubes - Rack Package

Product Number	Capacity (mL)	Сар Туре	Pack- aging	Quantity /Rack	Racks /Case
606952	1.5	External thread	10*10	100	14
607452	2.0	External thread	10*10	100	12
608452	4.0	External thread	10*10	100	8
609452	5.0	External thread	10*10	100	6
606852	1.5	Internal thread	10*10	100	14
607352	1.8	Internal thread	10*10	100	12
608352	4.0	Internal thread	10*10	100	8
609352	5.0	Internal thread	10*10	100	6
612891	2.0	External thread	6*8	48	10
614591	4.0	External thread	6*8	48	10

*The dimensions of the cryogenic box are detailed on page 09





SBS Format Cryogenic Tubes

Sealing design

 New sealing structure design, optimized sealing performance, better liquid nitrogen sealing, smoother feel.

High-quality raw materials

- Made of medical-grade high-purity polypropylene, ultra-high rigidity toughening material, excellent weather resistance, compliant with ISO10993 standards.
- No DNase, no RNase, no endotoxin.

Encoding rules

- Three-code-in-1 composed of DATAMATRIX code, barcode and readable code, laser-etched on the bottom and side of the tube.
- Codes are high contrast for easy reading, ratch-resistant, not easy to fall off, resistant to DMSO and other organic solvents.
- Hgh uniqueness of laser-etched international standard DATAMATRIX codes.

At the same time, NEST can customize exclusive encodings for you. If you have any requirements, please contact us. For more information, please visit our official website at www.cell-nest.com.

Quality assurance

- Produced in GMP 100,000-level clean room certified according to ISO 9001, ISO 13485 quality system certification.
- Strict production process, well-developed management system to ensure batch quality stability.

Sterility assurance

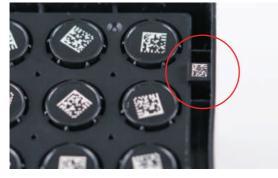
• E-beam sterilization, SAL=10⁻⁶.

Box features

External thread cap

Internal thread cap

- Cryogenic box identifier code: We have a unique QR code at the bottom of the rack and a one-dimensional barcode laser engraved on the side of the rack. When reading the cryogenic tube information, the box information is also read to automatically locate the rack and achieve a safer sample traceability.
- Box lid buckle: The cryogenic box is designed with a buckle that can tightly fit with the box to prevent scattering when dropped. The buckle switch is also convenient and does not fail even after being frozen in liquid nitrogen, ensuring sample safety.





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SBS Format Cryogenic Tubes

					- 10			TAXABLE IN TAXABLE INTENTIN TAXABLE INTENTIN TAXABLE IN TAXABLE IN TAXABLE IN TAXABLE IN TAXABLE IN TAXABLE IN TAXABLE INTENTIN TAXABLE INTENTIN TAXABLE IN TAXABLE INTENTI TAXABLE INTENTI TAXABLE INTENTI TAXABLE IN TAXABLE IN TAXABLE IN TAXABLE INTENTI			
Сар Туре			Exte	ernal thread	d cap			Internal t	hread cap	External t	hread cap
Capacity (mL)	0.5	0.75	1.0	2.0	4.0	6.0	8.0	0.5	1.0	4.0	1.9
Overall height (mm)	27.6	37.3	45.6	45.5	76.3	57.5	71.7	33.5	51.4	76.76	42.96
Size parameters (mm)		5.3		1(0	10	.3	6.5	55		
Outer diameter Φ (mm)) 8.85			12.85 17.8		.8	8.7		12	.8	
Temperature Range		-196 to 121°C				-196	to 121°C				

Note:

1. The thread of the external thread cap is not directly exposed to the outside, which minimizes the possibility of cross-contamination;

2. The internal thread cap has the same diameter as the cryogenic tube, which has an advantage in intensive storage applications;

3. The maximum volume of the external thread cap is closer to the nominal volume than the internal thread cap. Since the content volume usually increases during liquid freezing, the recommended usage volume of both external and internal thread cap cryogenic tubes is 80% of the maximum volume;

4. Both storage methods are aimed at ensuring the safety of cryogenic storage and can be freely selected according to the actual user needs.



• SBS 3-Code Cryogenic Tubes - Bag Package



Product Number	Capacity (mL)	Сар Туре	Quantity /Bag	Bags /Case
612541	0.5	External thread	96	10
612641	0.75	External thread	96	10
612741	1	External thread	96	10
612841	2	External thread	48	10
614541	4	External thread	48	10
614641	6	External thread	24	10
614741	8	External thread	24	10
612521	0.5	Internal thread	96	10
612721	1	Internal thread	96	10
612041	1.9	External thread	48	10
614041	4.0	External thread	48	10

	Product Number	Capacity (mL)	Сар Туре	Quantity /Rack	Racks /Case
	612551	0.5	External thread	96	10
	612651	0.75	External thread	96	10
	612751	1	External thread	96	10
	612851	2	External thread	48	10
	614551	4	External thread	48	10
	614651	6	External thread	24	10
	614751	8	External thread	24	10
	612531	0.5	Internal thread	96	10
	612731	1	Internal thread	96	10
N	612051	1.9	External thread	48	10
	614051	4.0	External thread	48	10

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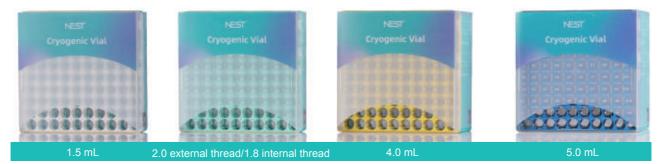
Cap Inserts, Cryogenic Box

Cap Inserts

	Product Number	Color	Sterilization	Packaging	
S	(NEW)	00101	Otermization	Quantity/Bag	Bags/Case
	611201	White	No	100	10
	611202	Red	No	100	10
	611203	Yellow	No	100	10
	611204	Blue	No	100	10
and a second	611205	Green	No	100	10
	611206	Purple	No	100	10

*The new Cryogenic Vial Labels are exclusively designed to work with NEST's latest collection of Cryogenic Vials.

Cryogenic Box





- PC transparent cover, PC-ABS high-strength composite material base.
- Temperature range from -196°C to 70°C.
- Alphanumeric grid for easy sample labeling and identification.
- Each box contains drainage holes and vents, which accelerate the discharge of cold air and reduce condensation.
- Packaging with independent product and batch identification for quality traceability.

Cryogenic Box

Product Number	Compatible Cryogenic Tube Capacity (mL)	Format (Holes)	Size (L x W x H)	Color	Sterilization	Quantity/Box
616651	1.5	10*10	133.6×133.6×44	White	No	14
616051	2.0 external thread/1.8 internal thread	10*10	133.6×133.6×48.8	Green	No	12
616151	4.0	10*10	133.6×133.6×79.5	Yellow	No	8
616551	5.0	10*10	133.6×133.6×96.5	Blue	No	6

3-Code-in-1 Cryogenic Vial

Product Number	Compatible Cryogenic Tube Capacity (mL)	Format (Holes)	Size (L x W x H)	Sterilization	Quantity/Box
616041	2.0	8*6	127×85.3×48.3	No	10
616841	6.0	4*6	127×85.3×60.4	No	10

*The new Cryogenic Box are exclusively designed to work with NEST's latest collection of Cryogenic Vials.

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Defrosting Device

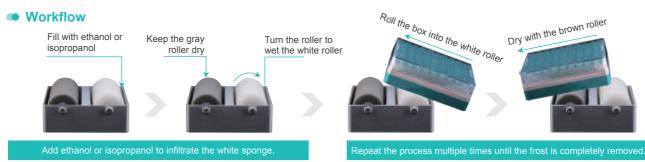


Product introduction

The NEST defrosting device is a tool used to quickly remove frost from the bottom of boxed cryogenic vials. When cryogenic vials are stored in liquid nitrogen vapor phase or -80 ° C freezer, ice can form at the bottom of the vials. However, to ensure the rapid reading of cryogenic vial decoding systems, it is necessary to clearly identify the 2D code at the bottom of the vial. Therefore, rapid defrosting has become a necessary step.

Features

- Wide compatibility: can be used for 24, 48, 96, and 384 formats of different brands of cryogenic boxes.
- Sample integrity: achieves bottom defrosting without heating, and the sample can still maintain a frozen state.
- Practicality: sponge roller is easy to assemble. The first roll requires the addition of a special reagent, and the second roll dries it, making it easy to use.



Product name	Defrosting device	Consumables for the defrosting device	Sponge
Product number	106001	Product number	106003/106004
Base material	Aluminum alloy	Material	High-quality sponge
Defrosting part	High-quality sponge	Color	White/Brown
Supporting reagent	Ethanol	Packaging method	1 piece/pack

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Vertical Freezer Racks



Product number	Size (mm)	Maximum number of boxes	Size of boxes (mm)	Pcs/Case
200301	454H x 143D x 140W	8	133x133x51	6
200302	677H x 143D x 140W	12	133x133x51	6
200303	724H x 143D x 140W	13	133x133x51	6
200304	789H x 143D x 140W	14	133x133x51	6
200305	845H x 143D x 140W	15	133x133x51	6

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Product number	Size (mm)	Maximum number of boxes	Size of boxes (mm)	Pcs/Case
200321	492H x 143D x 140W	6	133x133x75	6
200322	653H x 143D x 140W	8	133x133x75	6
200323	724H x 143D x 140W	9	133x133x75	6
200324	814H x 143D x 140W	10	133x133x75	6

Product number	Size (mm)	Maximum number of boxes	Size of boxes (mm)	Pcs/Case
200341	413H x 143D x 140W	4	133x133x98	6
200342	616H x 143D x 140W	6	133x133x98	6
200343	717H x 143D x 140W	7	133x133x98	6

Sample Freezing Recommendations

① Safety Risks and Recommendations:

NEST cryogenic vials are made of polypropylene (PP), which has good chemical resistance and low-temperature performance. The temperature range for using cryogenic vials is -196°C to 121°C. They can be sterilized at high temperature and high pressure or placed in liquid nitrogen vapor.

However, it is not recommended to store them in liquid nitrogen due to the risk of cross-contamination. Liquid nitrogen has very low surface tension, which can cause it to flow into tightly capped cryogenic vials. After removing a cryogenic vial, residual liquid nitrogen may vaporize, creating explosion and injury risks.

If the sample has already been stored in the liquid phase of liquid nitrogen, the following measures are recommended to reduce the risks:

- · Place the cryogenic box and cryogenic vial in liquid nitrogen vapor phase for 24 hours before removing from the liquid nitrogen tank to allow the liquid nitrogen to evaporate.
- When handling, be sure to wear protective goggles and gloves to prevent cryogenic vial rupture.
- · Add a cryogenic vial sleeve before freezing the sample.

Please note that correct use and storage of cryogenic vials are critical steps to ensure the quality and safety of biological samples. Therefore, please follow the correct operating procedures and safety measures when using and storing cryogenic vials to ensure the reliability of biological sample quality and research results.

Preserving Sample Activity



- · When handling low-temperature samples, it plays the role of a portable refrigerator, quickly cooling and temporarily stabilizing the temperature, maximizing the preservation of cell, nucleic acid, protein, and other sample activities.
- Suitable for tissue culture incubators, biosafety cabinets, and other limited space situations.



- 200102
- · Used for freezing various cell types, including stem cells, primary cells, cell lines, and yeast, etc.
- "Slow freezing" to protect cell activity; just place in a -80°C freezer to make the sample cool down 1°C per minute.
- · Zero addition and zero emissions, permanent use, and responds to the call of environmental protection.

Ice Free Cool Box

Product number	Size (mm)	Weight (g)	Application
200103	152x170x123	1300	Includes 200902 ice core and 2mL module 200904
200901	152x170x123	140	Without ice core and module, multiple cooling sources and modules can be selected.

Ice Core

	Product number	Product name	Temperature range	Freezer temperature	Freezing time	Size (mm)
	200902 Cold core	0.5°C~4°C	-20°C	4h+	105 x 100 x 26	
è	200902	Cold core	0.5°C~4°C	-80°C	2h+	105 x 100 x 26
	200903 Free	Freezing	-18°C~-4°C	-20°C	6h+	105 x 100 x 26
20090	200000	core	-18°C~-4°C	-80°C	3h+	105 x 100 x 26

Module

Product number	Product name	Size (mm)	Application
200904	2 mL module	119*101*38	30 holes for 2 mL cryogenic vials
200905	1.5 mL module	119*101*38	48 holes for 1.5 mL cryogenic vials
200906	5 mL module	119*101*38	30 holes for 5 mL cryogenic vials
200907	PCR module	119*101*38	96 PCR holes

Cell Freezing Box

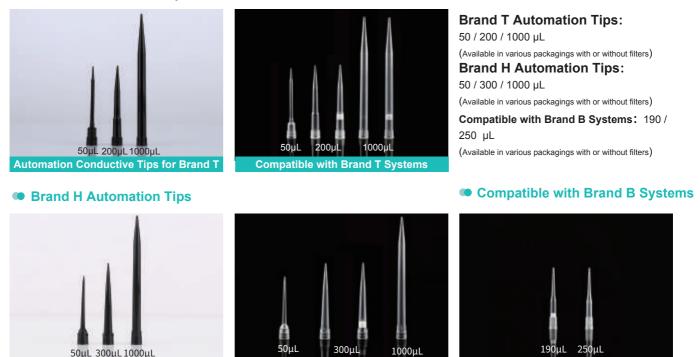
Product number	Shap	Sepcifications (mm)	Application
200101	Hexagonal	S108X100 (S: Side Length)	Holds 1 mL/2 mL cryogenic tubes or
200102	Square	117X117X100	microcentrifuge tubes(12-φ13)



Liquid Transfer

Automation Tips

Brand T Automation Tips



Compatible with Brand B Systems

Advantages

Automation Conductive Tips for Brand H

- 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.

Compatible with Brand H Systems

- · 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.

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.

Brand T Automation Tips

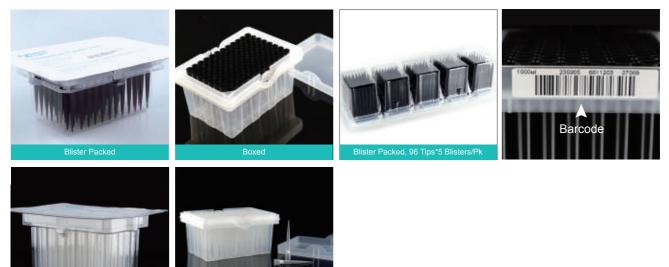


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Brand H Automation Tips

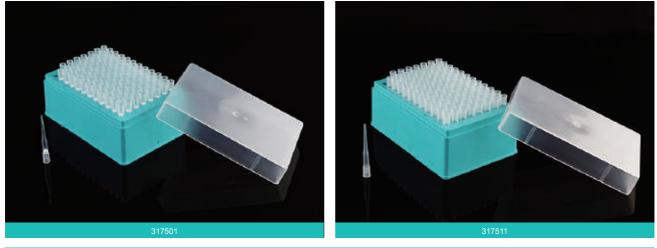
Blister Packed (96 Tips*2)

Boxed

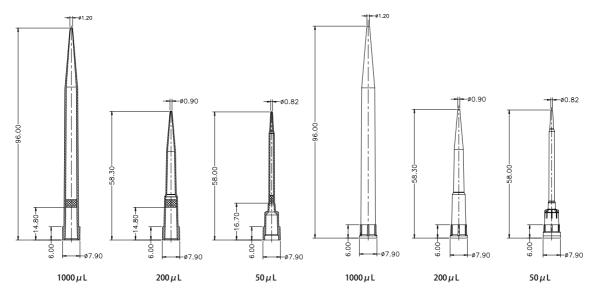


	Pac	king	Automation Co	onductive Tips	Robo	tic Tip
Volume (µL)	Specification	Packaging	No Filter	Filter	No Filter / / 345503 345509 / / 345603 345603 345609 / / // // // // // // // // // // // // // //	Filter
	Blister Packed	96 pcs/rk 24 rks/pk	gingNo FilterFilterNo Filter24 rks/pk345002345012/50 rks/pk345005345015/24 rks/pk/34501334550324 rks/pk/34501334550324 rks/pk/34506934550924 rks/pk345102345112/50 rks/pk345105345115/24 rks/pk/34510534511524 rks/pk/345113345603xes/pk, 5 pks/cs/34516934560924 rks/pk345202345212/	/		
50	With Barcode, 96 Tips*5 Blisters/Pk	96 pcs/rk 60 rks/pk	345005	345015	/	/
50	With Barcode, 96 Tips/Pk	96 pcs/rk 24 rks/pk	/	345013	345503	345513
	Boxed, With Barcode	96 pcs/box, 10 boxes/pk, 5 pks/cs	/	345069	345509	345519
300	Blister Packed	96 pcs/rk 24 rks/pk	345102	345112	/	/
	With Barcode, 96 Tips*5 Blisters/Pk	96 pcs/rk 60 rks/pk	345105	345115	/	/
300	With Barcode, 96 Tips/Pk	Packaging No Filt Packed 96 pcs/rk 24 rks/pk 345002 6 Tips*5 Blisters/Pk 96 pcs/rk 60 rks/pk 345002 6 Tips*5 Blisters/Pk 96 pcs/rk 24 rks/pk 345002 de, 96 Tips/Pk 96 pcs/rk 24 rks/pk / /ith Barcode 96 pcs/rk 24 rks/pk / Packed 96 pcs/rk 24 rks/pk 345102 6 Tips*5 Blisters/Pk 96 pcs/rk 24 rks/pk 345102 6 Tips*5 Blisters/Pk 96 pcs/rk 24 rks/pk 345102 de, 96 Tips/Pk 96 pcs/rk 24 rks/pk / /ith Barcode 96 pcs/rk 24 rks/pk 345202 6 Tips*5 Blisters/Pk 96 pcs/rk 24 rks/pk 345202 6 Tips*5 Blisters/Pk 96 pcs/rk 24 rks/pk 345202 6 Tips/Pk 96 pcs/rk 24 rks/pk / // e, 96 Tips/Pk 96 pcs/rk 24 rks/pk / <td>/</td> <td>345113</td> <td>345603</td> <td>345613</td>	/	345113	345603	345613
	Boxed, With Barcode	96 pcs/box, 10 boxes/pk, 5 pks/cs	1	345169	No Filter / / 345503 345509 / / 345603 345609 / 345609 / 345603 345503	345619
	Blister Packed	96 pcs/rk 24 rks/pk	345202	345212	/	/
50 Vith E	With Barcode, 96 Tips*5 Blisters/Pk	96 pcs/rk 60 rks/pk	345205	345215	/	/
	With Barcode, 96 Tips/Pk	96 pcs/rk 24 rks/pk	1	345213	345703	345713
	Boxed, With Barcode	96 pcs/box, 10 boxes/pk, 5 pks/cs	1	345269	345709	345719

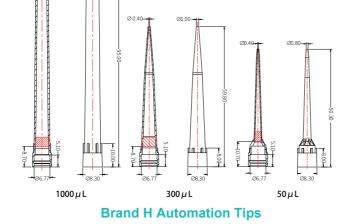
Brand B Automation Tips

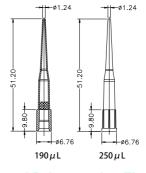


Volume (µL)	Filter	Sterilization	/Pack	/Bag	/Case	Cat.No.
250	NO	YES	96	10	5	317511
190	YES	YES	96	10	5	317501



Brand T Automation Tips





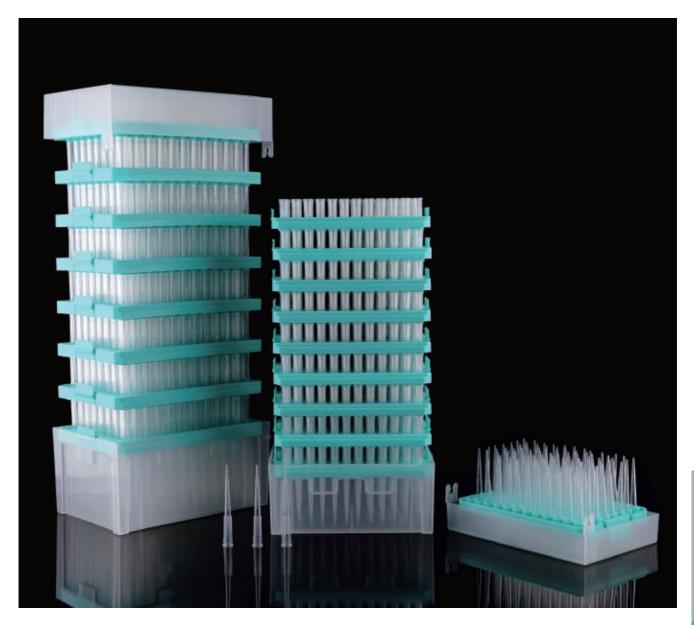
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Stackable Tip Refill

• Features

- NEST Refill Pipette Tips, Bulk are more convenient for customers to use, saving work and shortening work time, and improving work efficiency.
- NEST Refill Pipette Tips, Bulk are used for quantitative transfer of liquid consumables. They are used in experimental fields with liquid transfer operations, such as in biology and chemistry, and for liquid transfer in cell culture laboratories, liquid addition, liquid suction, or other liquid transfer uses.



Product Introduction

The stacked tips are assembled by stacking 5-10 different-sized tips into the tip box holder. They are convenient for customers to use, reduce costs, and have a high utilization rate. Only one box bottom is needed, and when one box is used up, another one can be loaded into the box holder.

Product Usage and Application Direction

- Product usage: more convenient than bagged pipette tips and more economical than single-box packaging, improving work efficiency and saving work time.
- Application direction: genomics, proteomics, cytology, immunodetection, metabolomics, biopharmaceutical research and development, and other commonly used high-throughput liquid transfer uses.

Product features

- Experimental-grade polypropylene (PP) is used for all injection-molded parts of the product.
- The whole set of products is assembled by stacking 5-10 pieces, which is convenient for customers to use.

Instructions for Use

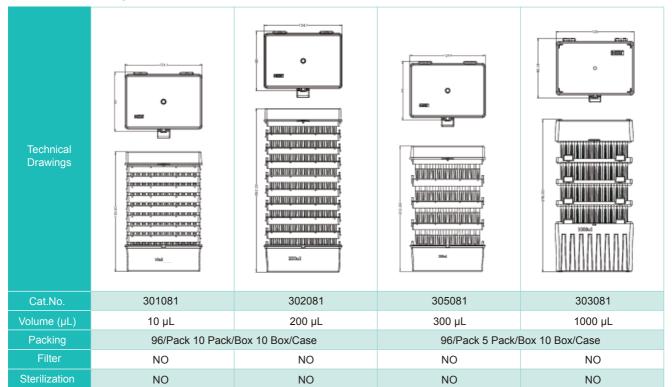


Step 2: Take off the top cover and carefully remove the top rack

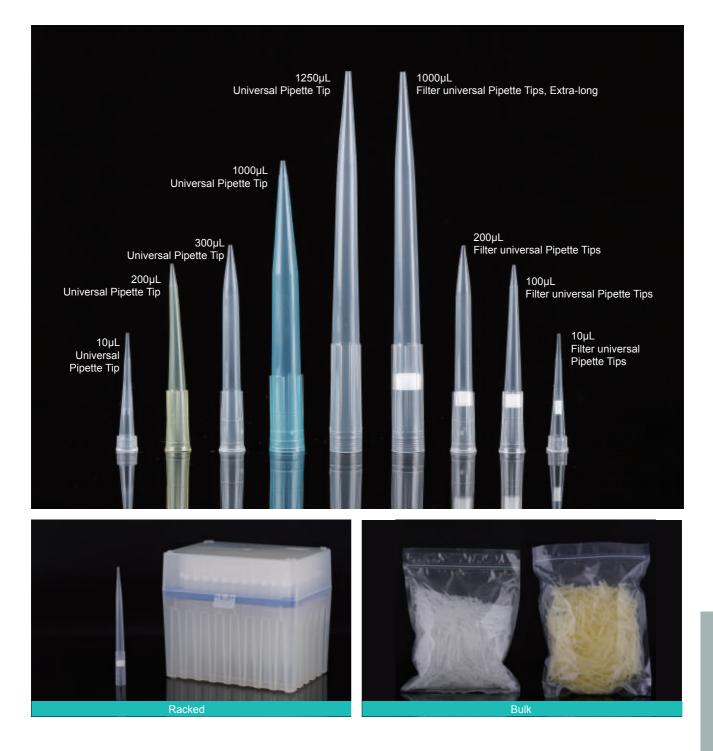


Step 3: Place the rack into the spare bottom hox

Product specifications



Pipette Tips



Feature

- Standard size: suitable for major pipettes on the market.
- · Smooth interior: minimizes residue and ensures accurate pipetting.
- High-quality materials: the imported PP materials is in line with USP Class VI.
- High-quality filter: pure UHMW polyethylene through unique processing technology.
- Super hydrophobicity: hydrophobic filter forms a solid barrier to aerosols, eliminating the risk of cross-contamination between sample and pipette.
- · Optimal pore size: ensures smooth aspiration
- · Advanced technology: ultra-fine grinding and moulding technique without mould release agent ensures better product quality.
- Innovative design: ensures good flexibility, sealing and compatibility.
- Standard workshop: Class 100,000 cleanroom to ensure the products are free of pyrogen and DNase/RNase.
- Transparency: good transparency make it easy to observe the liquid level during use.
- · Resistant to organic solvents: used to pipette various organic solvents.
- Individual labelling: each package has a Cat. NO for quality tracking and traceability.
- Highly efficient sterilization- Larger effective membrane filtration area of 4.9 cm².
- High flow rate and throughput.

Pipette Tip Bulk, Non-Sterile

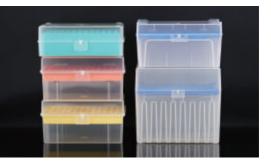
		Universal F	Pipette Tips		Filter Universal Pipette Tips			
Volume (µL)	Colour	/Pack	/Case	Cat.No.	Colour	/Pack	/Case	Cat.No.
10	Clear	1000	20	301006	Clear	1000	10	311001
10 (Extra-long)	Clear	1000	10	314001	Clear	1	1	/
100	/	1	/	1	Clear	1000	10	316001
200	Yellow	1000	20	302106	Clear	1000	10	312001
300	Clear	1000	10	305006	Clear	1	1	/
1000	Blue	1000	5	303206	Clear	1000	5	313006
1000 (Extra-long)	1	1	1	1	Clear	500	10	313001
1250	Clear	500	10	304006	/	1	1	1

Pipette Tip Racked, Sterile

		Unive	ersal Pipette	Tips		Filter Universal Pipette Tips				
Volume (µL)	Colour	our /Box /Pack /Case Cat.No.		Colour	/Box	/Pack	/Case	Cat.No.		
10	Clear	96	10	5	301016	Clear	96	10	5	311012
10 (Extra-long)	/	/	/	/	1	Clear	96	10	5	314016
20	/	/	/	/	1	Clear	96	10	5	310012
100	/	/	1	1	1	Clear	96	10	5	316012
200	Yellow	96	10	5	302116	Clear	96	10	5	312012
300	Clear	96	10	5	305016	/	/	/	/	/
1000	Blue	100	10	5	303216	Clear	96	10	5	313016
1000 (Extra-long)	/	/	/	/	1	Clear	96	10	5	313012
1250	Clear	96	10	5	304016	/	/	1	1	1

Tip Box, Box without tips

Volume (µL) Universal Tip Box Filter Tip Box		Middle panel holes	Packing	Cat.No.
10	/	96	50 pcs/cs (Box only)	351001
200	20/100	96	50 pcs/cs (Box only)	351101
300	200	96	50 pcs/cs (Box only)	351401
1000	1000	100	50 pcs/cs (Box only)	351201
1250	1250	96	50 pcs/cs (Box only)	351301



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-butadi ene-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.





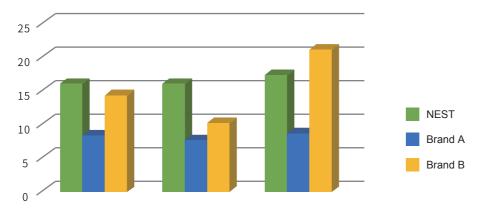
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Features

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

Membrane Ty	vpe 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°C.
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.

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 (ºC)	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

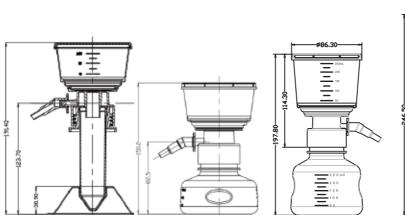
Volume (µL)	Pore Density	Vacuum Filtration Syster	ms (Sterile)1/Pack, 12/Case	Bottle Top Vacuum Filter	(Sterile) 1/Pack, 24/Case
	(µm)	PES Membrane	PVDF Membrane	PES Membrane	PVDF Membrane
	0.10	347002	347102	347012	347112
50	0.22	347001	347101	347011	347111
	0.45	347003	347103	347013	347113
	0.10	346002	346102	346012	346112
150	0.22	346001	346101	346011	346111
	0.45	346003	346103	346013	346113
	0.10	342002	342102	342012	342112
250	0.22	342001	342101	342011	342111
	0.45	342003	342103	342013	342113
	0.10	343002	343102	343012	343112
500	0.22	343001	343101	343011	343111
	0.45	343003	343103	343013	343113
	0.10	344002	344102	344012	344112
1000	0.22	344001	344101	344011	344111
	0.45	344003	344103	344013	344113

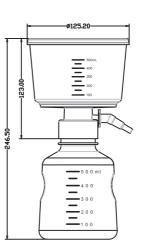
Polystyrene Storage Bottles (Sterile)

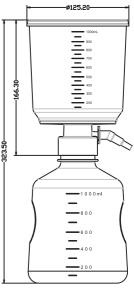
	Size (mm)			Pac	king	0-1 11-	
Volume (µL)	Height	Bottleneck Diameter	Bottom Diameter	/Pack	/Case	Cat.No.	
150	80		89.15	1	24	346021	
250	105	42	88	1	24	342021	
500	145	42	96	1	24	343021	
1000	178.5		122	1	12	344021	

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.







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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

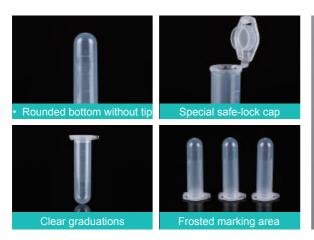
- · Highly efficient sterilization
- Larger effective membrane filtration area of 4.9 cm².
- · High flow rate and throughput.
- Sterilized by E-beam, SAL=10⁻⁶.
- Non-Pyrogenic, DNase/Rnase free.

Size (mm)				Packing		
	Pore Size (µm)	Membrane	/Pack	/Case	Cat. No.	
30	0.22	PES	100	10	331011	
30	0.22	PVDF	100	10	331001	

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





• USP VI grade polypropylene material, free from heavy metal.

• Sterilized by E-beam, SAL=10⁻⁶.

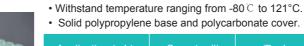
• RNase free, endotoxin level less than 0.1EU.

• Each package is individually labelled with a Cat.NO for easy quality tracking and traceability.

Brown colour provides protection from light, especially for light-sensitive substances.

Volume (mL)	Bottom	Color	Sterile	/Pack	/Bag	/Case	Cat.No.
		Clear	Non-sterile	1000	/	10	605001
0.6	Round	Clear	Sterile	50	15	10	605601
0.0	Round	Amber	Sterile	50	15	10	605401
		Amber	Non-sterile	50	15	10	605501
		Clear	Non-sterile	500	/	10	615001
1.5	Round	Clear	Sterile	50	8	10	615601
		Amber	Sterile	50	8	10	615401
	Queinel	Clear	Non-sterile	500	/	10	620011
2.0	Conical	Clear	Sterile	50	8	10	620611
	<u> </u>	Clear	Non-sterile	200	1	10	603011
5.0	Conical	Clear	Sterile	200	1	10	603111

Micro Tube Box

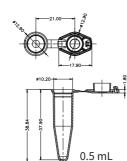


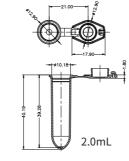
• Non-sterile.

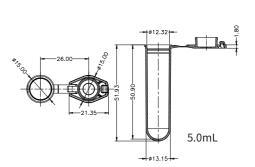
Application (mL)	Spec (well)	/Pack	/Case	Cat.No.	
0.6	10*10	5	8	613001	
1.5/2	8*8	5	8	613111	











RCF: 30,000 xg.Autoclavable at 121°C/15psi

15/50 mL Centrifuge Tube









• 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=10⁻⁶.
- 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.

Centrifuge Tube Rack

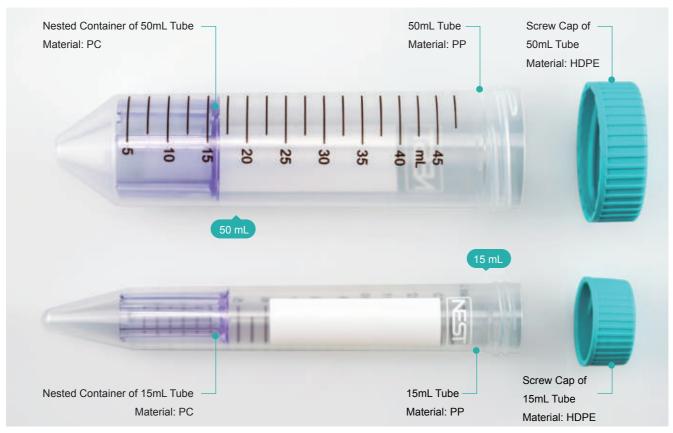
- Made of virgin polypropylene.
- · Reusable and economic.
- Non-sterilized.

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

Volume	Color	Dookoging		Sterile	Packing		Cat.No.	
(mL)	(mL)	Packaging	Max.RCF(xg)	Sterlie	/Pack	/Case	Premium Level	Standard Level
	Clear	PS Rack	12000		50	10	601001	601051
15	Clear	Bulk	12000		50	10	601002	601052
	Amber	PS Rack	12000		50	10	601201	1
	Clear	PS Rack	12000	Yes	25	20	602001	602051
50	Clear	Bulk	12000		25	20	602002	602052
	Amber	PS Rack	12000		25	20	602201	1
50 (Self-Standing)	Clear	Bulk	5000		25	20	1	602072

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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 tub, which is designed specifically to separate the target sample from the density gradient medium to the utmost extent; while erythrocytes and granulo-cytes 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=106.
- 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.

	Capacity(mL)	Otorila	Packing		Cat.No.
Volume (mL)		Sterile	/Pack	/Case	Cal.NO.
15	15 4-9		50	10	601852
10		Yes	50	3	601851
50	10.00		25	20	602852
50	13-30		25	4	602851

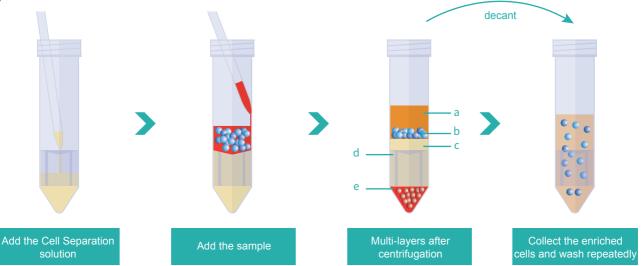
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Instructions

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

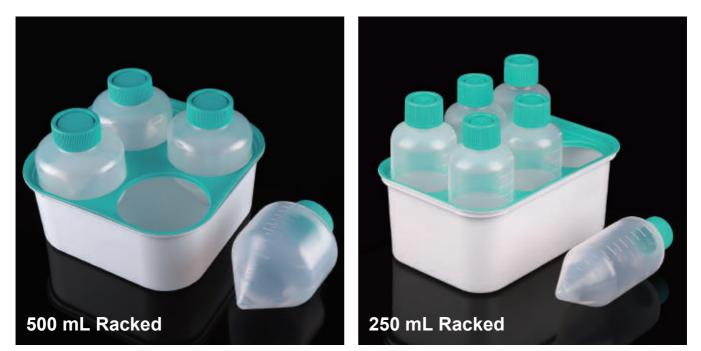


- Slowly pour or pipette the anticoagulated sample (blood or bone marrow, diluted with saline if needed) along the tube wall into the tube slowly: for a 15 mL separation tube, 4-9 mL of the sample is recommended; for a 50 mL separation tube, 13-30 mL of the sample is recommended.
- Centrifuge at room 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.

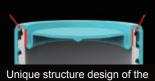
250/500 mL Centrifuge Tube



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.



cap provides double security



Newly added o-ring



- · 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=10⁻⁶
- 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.

Packaging	Sterile	Volume (mL)	/Pack	/Case	Cat.No.
Bulk	Yes	250	6	102	622001
Bulk	Yes	500	6	36	623001
Racked	Yes	250	6	24	622002
Racked	Yes	500	4	24	623002

Centrifuge Tube Closed System Solution



Product Description

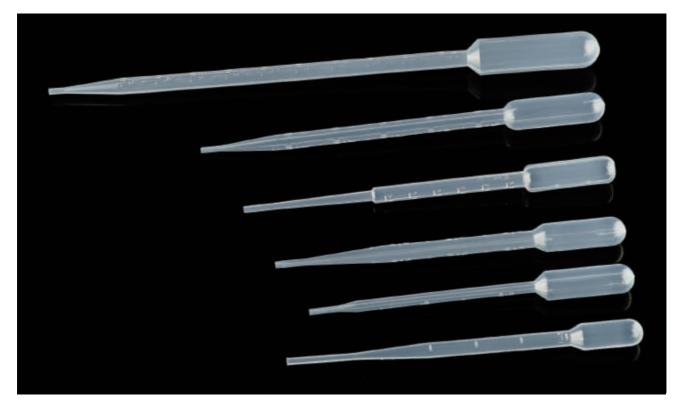
The pre-assembled Closed System of Centrifuge Tube is convenient for aseptic sampling and transfer during biological production procedures. Each is double-packed and equipped with a seal cap which can be used to substitute the pipes in case of subsequent centrifugation and analysis.

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.

- 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.

Volume (mL)	Tube Ma	aterial		0.2µm Filter	/Case	Cat.No.
	Dia.	Length	Connector	Membrane area	70430	
50	1/8" ID, 1/4" OD		Male Luer		4	C60622-EFB050A
250	φ 6.4mm	50 cm	Connector	4.5cm ²	4	C60922-EFB050A
500	ψ.3.211111				4	C61022-EFB050A

Pasteur Pipette



- · Good chemical stability.
- Transparent with clear graduations for easy observation.
- Pipette can be twisted for use with micro vessels and special-shaped containers.
- Good resilience for rapid liquid transfer
- High precision and good repeatability.
- Each package is individually labelled with the batch number for easy quality tracking and traceability.
- DNase/RNase, endotoxin and pyrogenic free.
- Individually wrapped, sterilized by EO, SAL=10⁻⁶.

Volume	Length	Declassing	Sterile	Pac	king	Cat.No.
(mL)	(mm)	Packaging Sterile		/Pack	/Case	Cat.no.
4	Individually Packed	Sterile	4	500	318012	
1	144	Bulk	Non-sterile	10	500	318031
2	2 150	Individually Packed	Sterile	4	500	318112
2	150	Bulk	Non-sterile	10	500	318131
	162	Individually Packed	Sterile	4	500	318212
3	102	Bulk	Non-sterile	10	500	318231
	182 (Extra Long)	Individually Packed	Sterile	10	200	318314
5	200	Individually Packed	Sterile	4	250	318516
10	285	Individually Packed	Sterile	4	125	318417

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.

- Edged color-coded band for identification.
- Made of high clarity, 100% virgin polystyrene.
- Negative graduations for extra volume.
- Polyolefin fiber filter to reduce contamination.
- Each package is individually labelled with the batch number for easy quality tracking and traceability.
- Non-Pyrogenic, DNase/Rnase free.
- Sterilized by E-beam, SAL=10⁻⁶.

Volume (mL)	Sterile	Packaging	/Box	/Case	Cat.No.
1	Yes	Individually Plastic-plastic Wrapped	500	6	324003
I	Yes	Individually Plastic-plastic Wrapped	500	6	324001
2	Yes	Individually Plastic-plastic Wrapped	400	6	325003
2	Yes	Individually Plastic-plastic Wrapped	400	6	325001
5	Yes	Individually Plastic-plastic Wrapped	200	4	326003
5	Yes	Individually Plastic-plastic Wrapped	200	4	326001
10	Yes	Individually Plastic-plastic Wrapped	200	4	327003
10	Yes	Individually Paper-plastic Wrapped	200	4	327001
10 (Ink-free laser printed)	Yes	Individually Paper-plastic Wrapped	50	10	327303
25	Yes	Individually Paper-plastic Wrapped	200	4	328003
20	Yes	Individually Paper-plastic Wrapped	200	4	328001
50	Yes	Individually Paper-plastic Wrapped	100	6	329003
50	Yes	Individually Paper-plastic Wrapped	100	6	329001
100	Yes	Individually Paper-plastic Wrapped	50	6	329501

Reagent Reservoir



Features

- · Made of USP Class VI compliant polypropylene.
- The V shape bottom is compatible with single or multi-channel pipettes during cell culture, immunoassays, etc.
- · A large capacity of 60 ml; injection-moulded with scale lines
- Individually labelled with the Cat.NO for easy quality tracking and traceability.
- Non-Pyrogenic, DNase/Rnase free.

Volume (mL)	Sterile	Сар	/Pack	/Case	Cat.No.
60	No	Yes	5	25	360002
60	Yes	Yes	5	25	360012

Reservoir



- · Perfectly overcomes the surface tension of liquids during automated pipetting and minimizes liquid residues.
- Made of USP Class VI compliant polypropylene, and is chemically stable and resistant to chemical corrosion.
- \bullet Freezable down to -80° C
- Less residue and wall hangings
- · Conforms to ANSI (American National Standards Institute) SBS standards.
- Each package is individually labelled with the batch number for easy quality tracking and traceability.
- Non-Pyrogenic, DNase/Rnase free. Low heavy metal content.
- Sterilized by E-beam, SAL=10⁻⁶.

Channel Troughs	Volume	/Pack	/Case	Cat.No.		
	(mL)	(mL) / dek / dee	/Case	Non-sterile	Sterile	
8	22	5	10	360101	360111	
12	14	5	10	360102	360112	
96	195	5	10	360103	360113	
384	185	5	10	360104	360114	

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 pro-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.

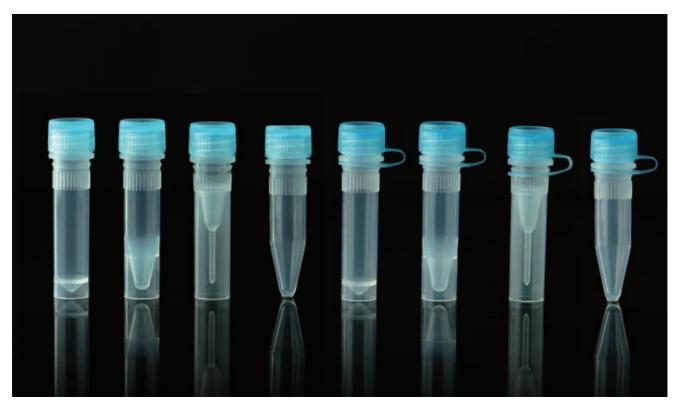
Application

• NEST Round Storage Bottle is designed for liquid storage in molecular and cellular biology, laboratory medicine, genomics and proteomics research.

Volume		Size(mm)		Pac	king	Polypropy	lene (PP)	Polypropy	lene (PP)
(mL)	Bottleneck Diameter	Bottom Diameter	Height	/Pack	/Case	Material	Cat.No.	Material	Cat.No.
8	13.8	24.8	42.3	20	20	HDPE	335101	PP	335201
15	13.8	24.8	56.1	20	20	HDPE	336101	PP	336201
30	21	33.9	59.05	10	20	HDPE	337101	PP	337201
60	21	38.6	81.5	10	20	HDPE	338101	PP	338201
125	28	50.8	95.5	10	10	HDPE	339101	PP	339201
250	33	60.5	127.6	10	10	HDPE	340101	PP	340201
500	43.8	73	161.6	5	10	HDPE	341101	PP	341201

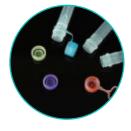
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Sample Vial



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.



Available in 6 colors

Sample Vial

Volume	Pac	king	Bottom	Cat.No.		
(mL)	/Pack	/Case	BOllom	Cal.No.		
0.5	500	4	Self Standing	633901		
1.5	500	4	Self Standing	634901		
1.5	500	4	Self Standing	634911		
2.0	500	4	Conical	635901		

Sample Vial Cap

Color	Pac /Pack	king /Case	External Thread Cap	External Thread Cap Hinged Cap
Blue	500	4	633951B	633961B
Red	500	4	633951R	633961R
Yellow	500	4	633951Y	633961Y
Purple	500	4	633951P	633961P
Natural	500	4	633951N	633961N
Green	500	4	633951G	633961G

Cluster tube

NEST 1.1mL 96-well Cluster Tube Box conforms to the ANSI-SBS standard and is compatible with multi-channel pipettes and automated liquid workstations. The raw material of tube body is imported PP, which meets the USP-CLASS 6 standard. It has high transparency and good chemical stability, and is suitable for low-temperature storage of cells, drugs, tissues, sera, and other reagents.



Complete Specifications

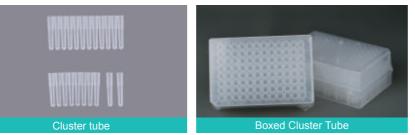
- NEST 1.1mL Cluster Tubes are available in single tube, 8-strip, and 12-strip, and the tube caps are available in 8-strip and 12-strip for customers to choose from.
- They are compatible with multi-channel pipettes and automated liquid workstations with SBS standard size carriers.

Exquisite Design

- The one-way cap design, with letter and number grids, ensures positive identification of samples.
- The bottom and side walls of the box holder are hollowed out for good thermal conductivity, and the box supports direct immersion in a water bath.water bath.

High Quality Raw Materials

- The raw material is imported PP, which conforms to USP class 6 standards. The 8-strip and 12-strip caps are made of TPE, which has better sealing performance.
- \bullet Resistant to low temperature storage at -80 $^\circ\!\mathrm{C}$, and autoclavable.





Bagged Cluster Tube Cap

Cluster Tube

Schematic Diagram	Name	Packaging			Material	Sterile Cat.No.	Non-sterile Cat.No.
	4 Arel Oisels Objects Table	Bagged	960 pcs/bag	5 bags/case	PP	/	628111
	1.1mL Single Cluster Tube	Boxed	96 pcs/box 10 boxes/pack	5 bags/case	PP	628114	628112
	4 Anal 0 atria Chuston Tuba	Bagged	120 pcs/bag	5 bags/case	PP	/	628121
	1.1mL 8-strip Cluster Tube	Boxed	12 pcs/box 10 boxes/pack	5 bags/case	PP	628124	628122
	1.1mL 12-strip Cluster Tube	Bagged	80 pcs/bag	5 bags/case	PP	/	628131
		Boxed	8 pcs/box 10 boxes/pack	5 bags/case	PP	628134	628132

Cluster Tube Cap

Schematic Diagram	Name	Packaging			Material	Sterile Cat.No.	Non-sterile Cat.No.
-00000000	8-strip Cluster Tube Cap	Bagged	120/bag	5 bags/case	TPE	628923	628921
69906900990°	12-strip Cluster Tube Cap	Bagged	80/bag	5 bags/case	TPE	628933	628931



Molecular Biology

ELISA Plate

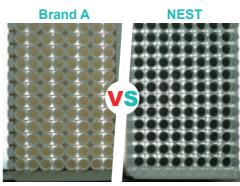
NEST ELISA plate, made of polystyrene, is a safe, reliable and effective supporter in enzyme-linked immuno-absorbent assay (ELISA). The features of the plates are crucial for the adsorption of antigens, antibodies and antigen-antibody complexes. ELISA plates from NEST adopts a unique surface treatment 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

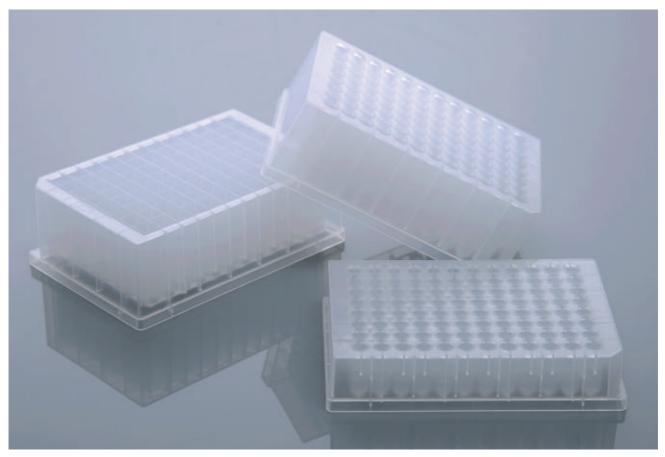
- · Greatly improves the flexibility in diagnostic testing.
- · Each well is locked in the frame, all at the same horizontal.
- The design of 8-well strip allows for uniform reading and washing.



White Elisa Plates is light-proof, and can lower the cross-talk between wells

			Proceer anone		
Cat.No.	514201	504201	504271	504261	
Specification	F96	12 x F8	12 x F8	12 x F8	
Color	Transparent	White Frame & Clear Well	White Frame & White Well	White Frame & Black Well	
Description	Undetachable	Detachable	Detachable	Detachable	
Packing	5/Pack 10 Pack/Box	5/Pack 10 Pack/Box	5/Pack 10 Pack/Box	5/Pack 10 Pack/Box	
Features	High trans	parency	White Elisa Plates is light-proof, and can lower the cross-talk between wells	Made of non-autofluorescent materials with good protein adsorption and low background fluorescence.	
Application	Quantitative and qualitative say and bind		Autofluorescence, chemilumi- nescence	Fluorescence immunoassay and binding assay	

Deep Well Plate



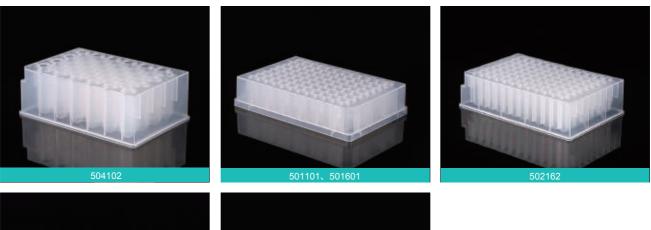
The length and width of the deep well plate comply with the SBS international standards. The deep well plates of NEST have a variety of specifications, conforming to the needs of fully automatic workstations and experiments.

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 $^\circ\!\mathrm{C}$.
- · Maximum sustainable centrifuge force 4000g.
- Autoclavable at 20Psi, 121 $^\circ\!\!C$ 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.







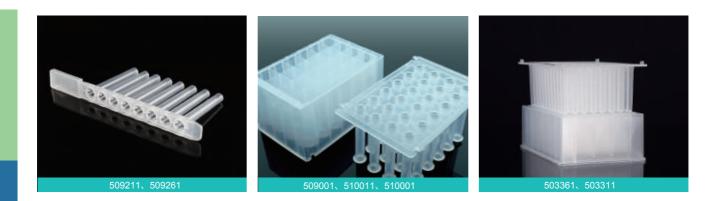
Round Well

Specification	Volume (mL)	Bottom	/Pack	/Case	Non-sterile Cat.No.	Sterile Cat.No.
48-Round well	3.5	U-Bottom	10	5	504102	504162
	0.36	V-Bottom	10	5	500101	500161
	0.4	U-Bottom	10	5	501102	501162
96-Round well	0.5	V-Bottom	10	5	501101	501601
	1	U-Bottom	5	10	1	502162
	2	U-Bottom	5	10	503102	503162
	1.3	U-Bottom	5	10	507001	507101

Plastic Tip Comb

Specification	Bottom	/Bag	/Pack	/Case	Non-sterile Cat.No.	Sterile Cat.No.
8 Tip Combs	U-Bottom	2	25	10	509211	509261
8 Tip Combs	V-Bottom	1	/	25		509001
MagPure 96 Tip Combs	V-Bottom	5	/	10	503311	503361

503361、503311 Compatible with KingFisher Flex&Presto



∏ 81



503021、503621









Square Well

Specification	Volume (mL)	Bottom	/Pack	/Case	Non-sterile Cat.No.	Sterile Cat.No.
24 Square Well	16	V-Bottom	1	25	1	510001
24 Square Well with 24 Well Plastic Comb	16	V-Bottom	1	25	510071	510011
48 Square Well	4.6	U-Bottom	5	10	504062	504002
	0.5	V-Bottom	5	10	500021	500621
	1	U-Bottom	10	5	501002	501062
	1.6	U-Bottom	5	10	502002	502062
96 Square Well	2	V-Bottom	5	10	503001	503501
	2.2	U-Bottom	5	10	503002	503062
	2.2	V-Bottom	5	10	503021	503621
96 I Shape Square Wells	2.2	U-Bottom	5	10	503711	503761

 $500021,\ 500621,\ 503021,\ 503621$ Compatible with King Fisher Flex&Presto

Silicone Sealing Mat

Compatibility	Volume	Piercibility	/Pack	/Case	Cat.No.
96 Well Round well	≤ 1.0 mL	Can been punctured	10	5	506005
So wen round wen	2.0 mL	Can been punctured	10	5	506006
			10	5	506003
96 Well Square well	0.5-2.2mL	Can been punctured	10	5	506004

 \overline{V}

8-Strip PCR Tube & Tube & Cap





• PCR Tube

Volume (mL)	Сар Туре	Color	/Pack	/Case	Cat.No.
0.2	Flat	Transparent	1000	10	401001

Features

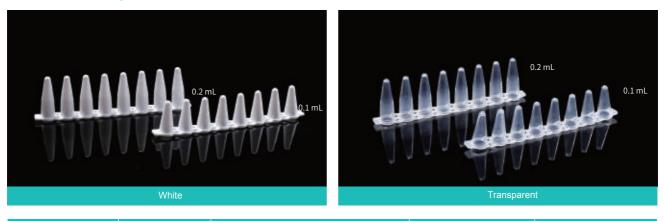
- · Made of polypropylene.
- Compatible with all major PCR and real-time PCR instruments on the market. Thin-wall design produces high thermal conductivity, allowing the reaction solution inside to reach the target temperature as quickly as possible.
- The cap has excellent sealing performance and is easy to open; the loss of reaction volume can be controlled within 5% when a pcr heated lid is applied.
- A maximum capacity of 250 µL.
- No human DNA, no DNase/RNase, no PCR inhibitors.
- Zip-lock bag.

PCR 8-strip Tube with Individual Cap Attached

Volume (mL)	Сар Туре	Color	/Pack	/Case	Cat.No.
0.2	Flat	Transparent	120	10	404001

- No human DNA, no DNase/RNase, no PCR inhibitors.
- · Zip-lock bag.
- White PCR 8-strip tubes can effectively prevent signal interference, increase signal strength, and improve experimental efficiency.

• PCR 8-strip Tube



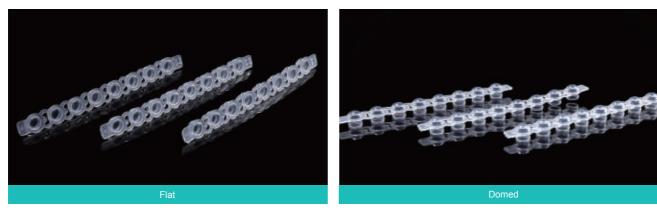
Volume (mL)	Color	Pac	king	Non-sterile	Sterile Cat.No.	
	Color	/Pack	/Case	Cat.No.		
0.4	Transparent	125	10	403102	403122	
0.1	White	125	10	403112	403132	
0.0	Transparent	125	10	403002	403022	
0.2	White	125	10	403012	403032	

The transparent version is suitable for ordinary PCR reactions, and the white version is suitable for qPCR reactions.

The 0.1 mL tube is intended for overnight incubation experiments. It is specifically designed to be shorter than standard tubes to reduce contamination caused by condensation and the evaporation of the reaction solution. The design also increases the penetration intensity of fluorescent signals in qPCR.

The maximum capacity of the 0.1ml tube is 150 $\mu\text{L},$ and that of a 0.2 mL tube is 250 $\mu\text{L}.$

• PCR 8-strip Tube Cap



Сар Туре	Color	Pac	king	Non-sterile	Sterile Cat.No.	
	COIOI	/Pack	/Case	Cat.No.		
Flat	Transparent	125	10	406012	406022	
Domed	Transparent	125	10	406112	406122	

· Compatible with NEST 8-strip PCR Tubes or 96-well PCR plates.

• The cap design allows for easy opening and closing, securing better sealing performance.

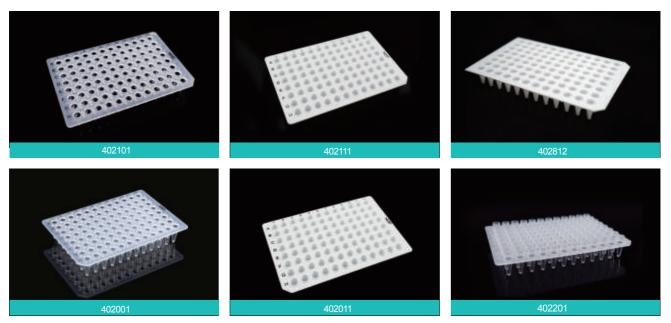
- The flat caps are better for qPCR experiments.
- The domed cap can better prevent liquid evaporation.

PCR 96 Well Plate

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.
- · The black ink-printing marks on the surface are easy to read and identify.
- Elevated edge of the hole can better prevent cross contamination.
- · Compatible with NEST pressure sensitive film, self-adhesive film and hot sealing film.
- Autoclavable.
- The tube wall of transparent 96-well PCR Plate is thin, allowing for good light transmission.
- White PCR 96-well plate is better for qPCR experiments.
- \bullet The maximum capacity of the 0.1ml tube is 150 $\mu L,$ and that of a 0.2 mL tube is 250 $\mu L.$
- Certified DNase/RNase and Pyrogen Free.

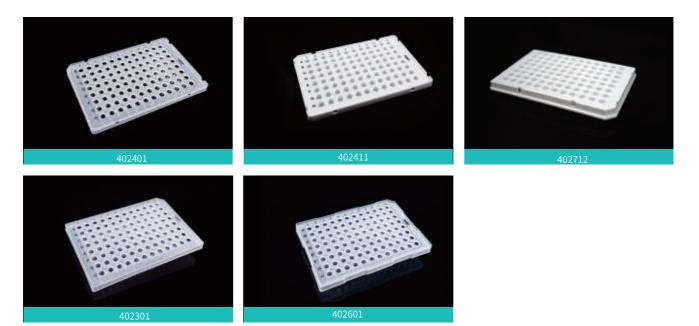


PCR Plate, No Skirt

Volume (mL)	Cut Position Color	Color	Tube	Notes	Pa	Cat.No.	
	Gut FOSILION	COIOI		Notes	/Pack	/Case	Cat.NO.
96-well 0.1	H12	Transparent	Low profile	/	25	4	402101
	H12	White	Low profile	/	25	4	402111
	A12/H12	White	Low profile	Compatible with Roche	10	5	402812
	H1	Transparent	High profile	/	25	4	402001
96-well 0.2	H1	White	High profile	/	25	4	402011
	H12	Transparent	Elevated Wells	/	25	4	402201

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

0.1ml tube and 0.2ml tube



• PCR Plate, Semi Skirt

Volume (mL)	Skirt Type	t Type Notes		Color	Tube	Packaging		Cat.No.
Volume (mL) Skirt Type	noles	Cut Position	COIOI	Tube	/Pack	/Case	Gal.NO.	
	Semi Skirt	Compatible with ABI models	A1	Transparent	Low profile	25	4	402401
96-well 0.1	Elevated Semi Skirt	1	A1	White	Low profile	25	4	402411
	Semi Skirt	Compatible with Roche	H12	White	Low profile	10	5	402712
96-well 0.2	Semi Skirt	1	A12	Transparent	High profile	25	4	402301
30-well 0.2	Semi Skirt	Compatible with ABI models	A12	Transparent	High profile	25	4	402601



PCR Plate, Semi Skirt

Volume (mL)	Skirt Type	Notes	Cut Position	Color	Tube	Packaging		Cat.No.
	Экігт туре	NOLES	Gui FOSItion	COIOI	Tube	/Pack	/Case	Gal.NU.
	Full Skirt	1	H1	Transparent	Low profile	25	4	402501
96-well 0.1 mL	Full Skirt	1	H1	White	Low profile	25	4	402511
	Full Skirt	Sterile	H1	Transparent	Low profile	25	4	402521
384-well 40 µL	Full Skirt	Compatible with Roche	A24+P24	White	Low profile	10	5	409013
··· ··· ··· ··· ··· ··· ··· ··· ··	Full Skirt	Compatible with Roche, Sterile	A24+P24	White	Low profile	10	5	409033

Compatibility

402712 Compatible with lightcycler 480 \hfill lightcycler 480 \hfill \hfill lightcycler 96 402812 Compatible with lightcycler 96

409013、409033 Compatible with lightcycler 480 $\rm II$

• Precautions

- · Select the appropriate plate according to the equipment
- During the experiment, the PCR film must be tightly attached to the plate to prevent evaporation

PCR Rack



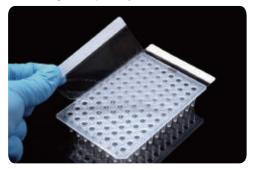
• Fits all NEST PCR products.

- Stackable.
- · Autoclavable.

			Pac	kaging	
Specification	Сар Туре	Color	/Pack	/Case	Cat.No.
(1 Rack+1 Cap)/ Set, 8*12 Format	Flat	Blue rack+Transparent lid	1 rack +1 lid	25	407001
(5 Rack+1 Cap)/ Set, 8*12 Format	Flat	Blue rack+Transparent lid	5 rack +1 lid	5	407101

PCR Sealing Film

NEST PCR sealing film is compatible with NEST 96-well ELISA Plates and 96-well PCR Plates in various applications such as the ELISA/PCR amplification reaction and PCR fluorescence quantification, etc. Both the regular PCR sealing film and high-transparency film are available.



High Transparency PCR Sealing Film:

- NEST High Transparency PCR Sealing Film is made of a layer of transparent polypropylene film and a layer of transparent silicon-based pressure-sensitive adhesive.
- Applicable temperature is -70°C to 100°C.
- Pressure-sensitive film is non-adhesive to skin and gloves, which is convenient for experimental operation and does not affect optical analysis.
- Does not react with the experimental sample, the experimental results are more reliable.
- No autofluorescence.

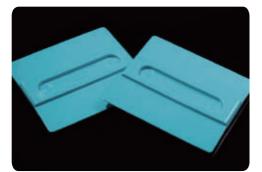
Sealing Film:

- Material: non-permeable soft film; the adhesive is medical grade strong adhesive. - Thickness: 100 $\mu m.$
- Economical and easy to use; compatible with a majority of PCR plates on the market.
- · Good sealing performance.

			Pac	king	
Specification	Size (mm)	Color	/Pack	/Case	Cat.No.
Standard Sealing Film	146 × 81	Transparent	100	5	410001
Advanced Sealing Film	141 × 78	Transparent	100	5	410011
New PCR Sealing Film	141×83	Transparent	100	5	410021

Note: for life science laboratory research only, not for clinical drug treatment. Recommended storage conditions: temperature range of 10-27 ° C; humidity range of 40%-60%.

PCR Scraper



• NEST PCR Scraper is compatible with NEST High-transparency Sealing film and Standard Sealing Film, enabling the filming attached to the plates closer and ensuring better sealing performance.

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

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Mastercycler nexus eco 401001 403002/404001 4004001/403022 402001/403022 402001/403022 402001/403022 402001/403022 402001/403022 402001/403022 Mastercycler nexus flat eco 401001 403002/404001 403002/404001 403002/404001 404001/403022 <t< td=""><td>Eppendorf®</td><td>Mastercycler nexus</td><td>401001</td><td>403002/404001</td><td></td><td></td><td></td><td>404001/403022</td><td>402001</td><td>402301</td><td>402501</td><td></td><td></td><td></td><td></td><td></td></t<>	Eppendorf®	Mastercycler nexus	401001	403002/404001				404001/403022	402001	402301	402501					
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		Mastercycler nexus flat eco	401001	403002/404001				404001/403022								

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Molecular Biology	
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 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		
3Prime	401001	403002/404001		404001/403022					
3PrimeG	401001	403002/404001		404001/403022					
3PrimeX	401001	403002/404001		404001/403022					
Cyclogene TM	401001	403002/404001		404001/403022	402001	402301	402501		
Flexigene TM	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		
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	

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																		403112/403132							403112/403132	403112/403132			
403102/403122	403102/403122	403102/403122	403102/403122	403102/403122													403102/403122	403102/403122							403102/403122				403102/403122
403002/404001	403002/404001	403002/404001	403002/404001	403002/404001	403002/404001	403002/404001	403002/404001	403002/404001	403002/404001	403002/404001	403002/404001	403002/404001	403002/404001	403002/404001	403002/404001	403002/404001	403002/404001		403002/404001	403002/404001	403002/404001	403002/404001	403002/404001	403002/404001					
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TProfessional/Standard	TProfessional/TIRO	TRobot	Uno	Uno II	q TOWER	SpeedCycler ²	TOptical	C1000 TM Touch TM	DNA Engine Dyad®/Dyad Disciple	Engine Tetrad®2	MyCycler TM	PTC-100®	PTC-200	PTC-225 Tetrad	S1000 TM	T100 TM	CFX Connect TM	CFX96 TM Touch/CFX96	Chromo4 TM	DNA Engine Opticon®2	iCycler	iQ TM 5	MiniOpticon TM	MyiQ TM	Opticon	miniOpticon	BaseStation TM	MJ research option	Opticon2
			Analytik Jena/	Biometra														Biorad®/	MJ Researsh®										

	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		
Thermo Hybaid	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		
	Nk3000®	401001	403002/404001				402001	402301					
Ctratacene	Mk3000P®	401001	403002/404001				402001	402301					
olialayerie	Nk3005®	401001	403002/404001				402001	402301					
	Mx4000®	401001	403002/404001				402001	402301					
Action	SureCycler®8800	401001	403002/404001	403102/403122		404001/403022	402001	402301	402501	402401			
אפוונ	ARIA MK G8830A				403112/403132							402812	
Oiccon®	Flexigene®	401001	403002/404001			404001/403022	402001	402301	402501				
A rade	Rotor-Gene® Q	401001				404001/403022							
MW G®	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				
	TP240	401001	403002/404001				402001	402301	402501				
TaKaRa®	天隆TL988-IV				403112/403132								
	TP3000	401001	403002/404001	403102/403122		404001/403022	402001	402301	402501		402101		
Amorhomen	MegaBAC E®500							402301	402501				
	MegaBACE1000							402301	402501				402201
Beckman Coulter®	CEQ TM							402301					
Transgenomic	WAVE®System							402301	402501				

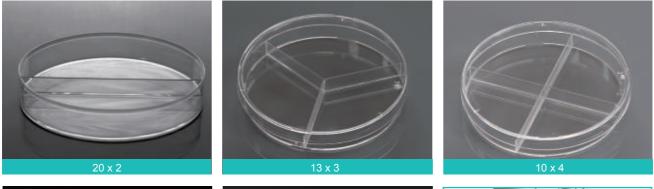


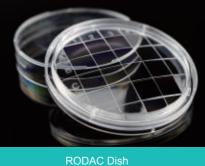
Bacteria

Petri Dishes

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.

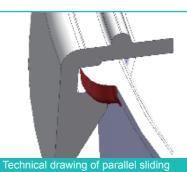
- Made of high clarity, 100% virgin polystyrene.
 Numeric marks at 3/6/9/12 o'clock at the bottom, making it convenient for users to determine the position of bacteria.
- Flat, transparent surface.
- PA/PE composite film packaging.
- Stackable for easy storage and handling.
- Each package has an independent item number and batch number identification, which is convenient for quality tracking and traceability.
- Sterilized by E-beam, SAL=10⁻⁶.
- Non-Pyrogenic, DNase/Rnase free.









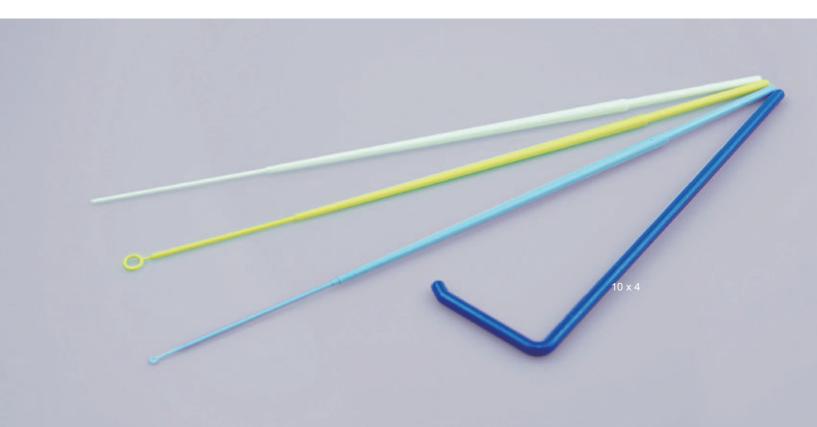


clasps design

Petri Dishes

					Pac	king	
Spec (mm)	Height (mm)	Volume (mL)	ТС	Sterile	/Pack	/Case	Cat.No.
35	12	5	NO	Sterile	20	25	706011
60	15	15	NO	Sterile	20	25	754001
	15	40	NO	Sterile	20	25	752001
	15	40	NO	Sterile	20	25	752002 Double-laye Packed
	15	40	NO	Sterile	10	50	752004
90	15	40	NO	Sterile	5	100	752003
	15	20 x 2 Compartments	NO	Sterile	20	25	752011
	15	13 x 3 Compartments	NO	Sterile	20	25	752021
	15	10 x 4 Compartments	NO	Sterile	20	25	752031
	15	40 Safe-lock Design	NO	Sterile	20	25	752101
100	20	40	NO	Sterile	20	15	752401
150	15	60	NO	Sterile	10	10	715011
100	25	/	NO	Sterile	5	20	755001
65	15	13-15	NO	Sterile	20	25	722011

Innoculating Needles / Loops L-Spreader



Inoculating Needle / Loop

PP material, hydrophilic.

- · Flexible handles for easier collection and inoculation.
- · Applied in microbiology experiments.
- · Different colors for identification.
- · Easy-tear sterile individual packaging.
- Each package has an independent item number and batch number identification, which is convenient for quality tracking and traceability.
- Sterilized by Ethylene Oxide.
- Sterilized by E-beam, SAL=10⁻⁶.

L-Spreader

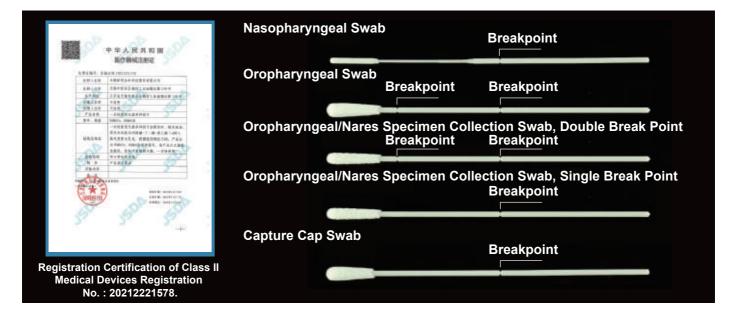
- · Sterile L-Spreader, made of using medical PS.
- Sterilized by E-beam, SAL=10⁻⁶.
- Smooth and flat surface that avoids problems such as contamination or uneven application of spread plate in bio-labs.
- Length of handle: 144mm, diagram of spreading: 33mm, suitable for 3.5cm, 6cm, 9cm, 10cm petri dishes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

	Nome	Color	Pa	acking	Cat.No.
Volume (µL)	Name	COIOI	/Pack	/Case	Gat.NO.
1	Inoculating Needle	White	400	10	716001
1	Inoculating Loop	Blue	400	10	717101
10	Inoculating Loop	Yellow	400	10	718201
1	L-Spreader	Blue	200	10	711001



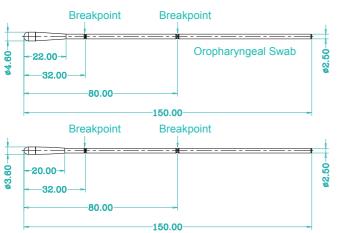
Medical Consumables

Disposable Swab

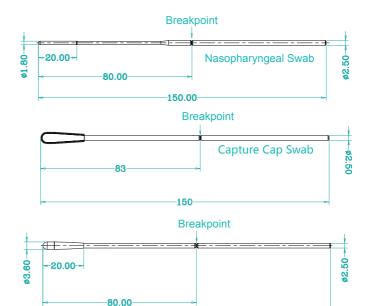


ADVANTAGE:

- 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, 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.

 \bullet 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		100
202117	Disposable Sampler, 10 mL Vial with 3 mL VTM, 10 Vials/pk, 100 Vials/cs Disposable Sampler, 10 mL Vial with 3 mL VTM, with Individually Wrapped and Sterile Oropharyngeal Swab, 10 Vials/pk, 50 Vials + 50 Swabs/cs 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 Vials/pk, 50 Vials + 50 Swabs/cs		100
202061			50
202065			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		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

Arth

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		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		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		50

Saline Transport Medium

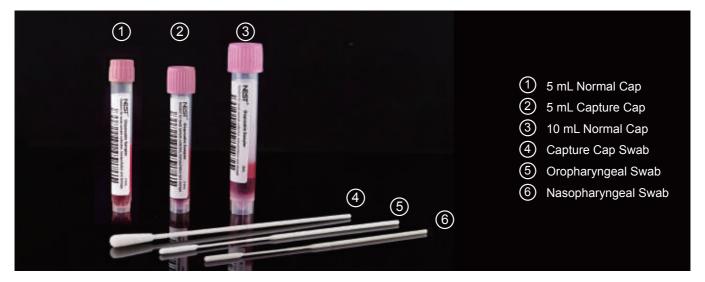


• Features

- 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/csDisposable Sampler, 5 mL Vial with 1.2 mL Saline Solution, with Individually Wrapped and Sterile Nasopharyngeal Swabs, 10 Vials/pk, 50 Vials + 50 Swabs/csDisposable 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/csDisposable 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/csDisposable 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/csDisposable 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/csDisposable 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		50
202045			50
202042			100
202044			100
202049			100
202141	Disposable Sampler, 5 mL Vial with 1.2 mL Saline Solution, 10 Vials/pk, 100 Vials/cs		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		100

AMIES Transport Medium



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).



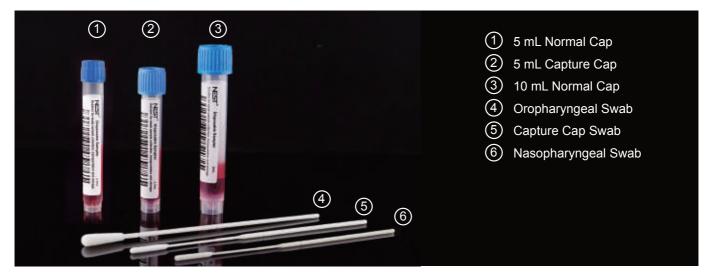
Capture Cap & Swab

- 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		/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		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



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 $^{\circ}$ if transported to the laboratory within 48 hours for the subsequent examination, inoculation and sample separation. Otherwise, please store the samples at -70 $^{\circ}$. 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 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		/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		100

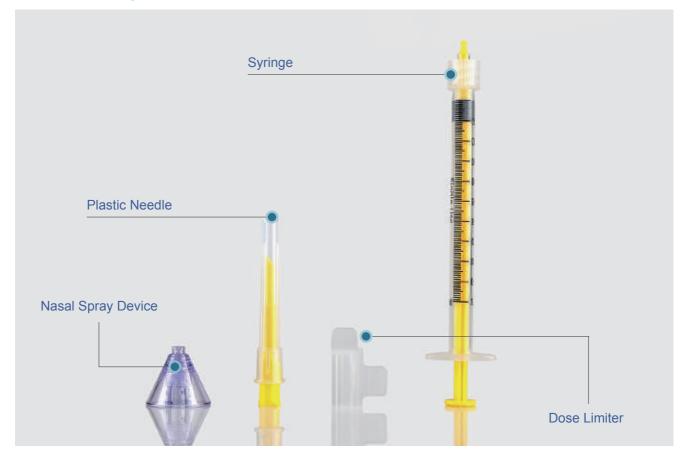
Cat.No.	Description	/Pack	/Case
202021	Disposable Sampler, 5 mL Vial with 1.2 mL UTM, with Individually Wrapped and Sterile Oropharyngeal Swab, 10 Vials/pk, 50 Vials + 50 Swabs/cs		50
202025	Disposable Sampler, 5 mL Vial with 1.2 mL UTM, with Individually Wrapped and Sterile Nasopharyngeal Swab, 10 Vials/pk, 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

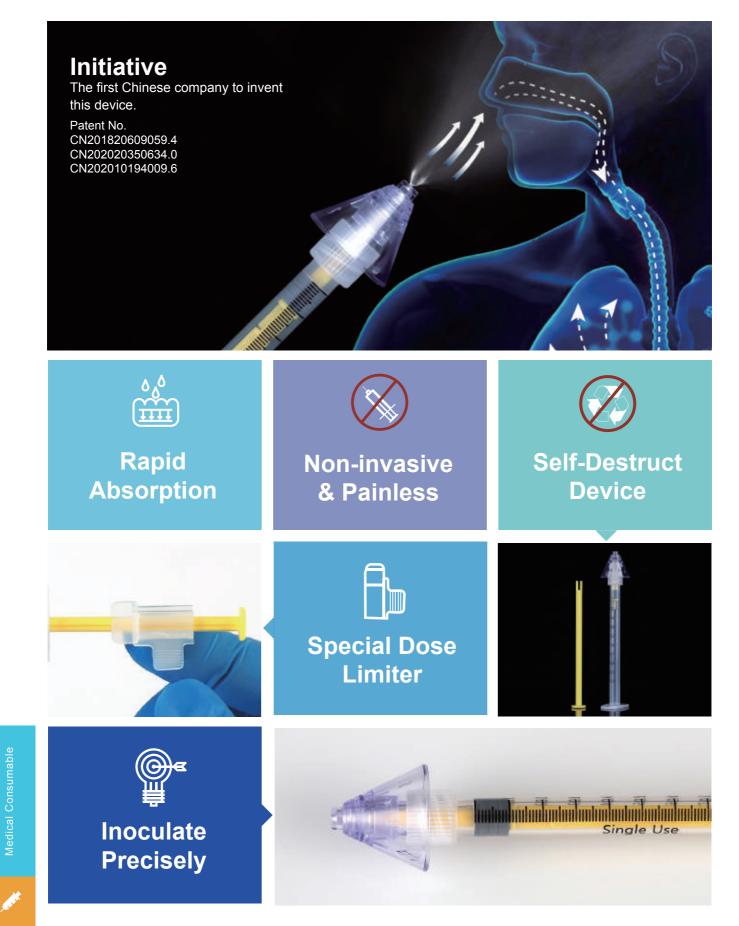
- The device provides a painless and rapid absorption medication delivery option for non-invasive intranasal medication delivery. It
 improves safety for both caregivers and patients by avoiding needle-sticking injuries.
- It is an atomizing device for drug administration intended to convert liquid preparations 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 selfdestructive structure ensures that the product can only be used once to provide users with safe and hygienic products.

Main Components



Product Parameters

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



Dry Saliva Collection Kits

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.	Volume (mL)	Upper Cup	Sterile	Contents	/Pack	/Case
203101	5 mL	Screw Funnel	Screw Funnel 5 mL Vial Specimen Bag Cap		1	100
203102	10 mL	Screw Funnel	Screw Funnel 10 mL Vial Sterile Specimen Bag Cap		1	100
203111	5 mL	Wedged Funnel	Sterile	Wedged Funnel 5 mL Vial Specimen Bag Cap	1	100
203112	10 mL	Wedged Funnel	Sterile	Wedged Funnel 10 mL Vial Specimen Bag Cap	1	100
203901	Wedged in	Funnels	Sterile	Compatible with different tube diameters ranging from 9.5-20.0 mm	1	100

Dry Saliva Collection Kits



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.

Shaking

ten times

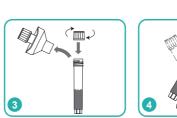
Introduction

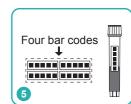
- The cap of the Preservation Solution Tube should always be securely fastened to prevent accidental ingestion.
- The delicate design allows the preservation solution automatically to flow into the storage vial, eliminating direct contact with the preservation solution at all stages.
- The ITM Inactivation Preservation Solution, which deactivates viruses while preventing nucleic acid degradation, effectively prevents accidental contact or infection during transportation and testing.
- The device can be conveniently stored or transported at room temperature.
- It ensures a comfortable collection process without causing pain or damage to the human body. It is particularly suitable for children and patients who cannot provide a blood sample.

Instructions









Take a barcode out and stick it on the saliva collection tube. Then place the tube with the attached barcode and two additional barcodes into the sample bag for later storage, transportation or testing. The user should retain the remaining barcode for future reference or feedback.

Description	/Pack	/Case	Cat.No.
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	203011

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.

Description	Packing	/Pack	/Case	Cat.No.	
	Paper Box Package	1	100	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	PE Bag Package	1	100	203061	
	Blister Package	1	100	203071	



Pharmaceutical Packaging

AccureVial[™] COP Bottle



Product introduction

The main raw material for NEST AccureVialTM COP Bottle is cyclic olefincopolymer (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 $121 \text{ C} \sim -196 \text{ C}$.

NEST AccureVialTM 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=10⁻⁶, 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.

Description	/Pack	/Case	Cat.No.	ľ
5 mL AccureVial [™] COP Bottle	1	10	207001	10
Notes: This specification is presented as a model. It can be tailored to meet your specific requirements				

Notes: This specification is presented as a model. It can be tailored to meet your specific requirements.

Pre-filling Disposable Glass Intranasal Atomization Device

Introduction

NEST Pre-filled Disposable Glass Intranasal Atomization Device, a kind of pharmaceutical packaging material with good stability and compatibility, is intended for long-term storage of medicine. During administration, it can convert the liquid preparation into uniformly atomized particles and spray them on the surface of the patients' mucous membrane (nasal and oral mucosa) to maximize medication effect. The devise is pre-filled with liquid preparation and sealed for storage and transportation. Therefore, both the process of transferring liquid preparation into syringe and the manual work involved are saved. Besides, medicine loss or waste for residue is solved. Meanwhile, safety and sanitation problems are also decreased since the contamination risk for liquid and device during transfer is reduced.

Features

Stable Material

Made of high quality medium borosilicate glass, which is extensively applied in pharmaceutical packaging including biological agents and vaccines, the product possesses strong chemical durability and shock resistance.

• Hermetically Sealed

The spray is equipped with a protection cap, which is embedded with sealing ring to ensure its leak-proofness and virus-resistance during transfer and transportation.

Perfect Atomization Effect

Atomization cavity with precision turbine design ensures uniformly atomized particles evenly distributed on human mucous membrane for ideal liquid atomization effect.

• Precise Dose

The precise Dose Limiter ensures the uniformity of each dose .

Single Use Design

The device is set with self-distruct design. After administration, the stopper will stick in the syringe and can't be taken out for a second use.

Application

Intranasal Medication through mucous membrane absorption is an efficient treatment method. Nasal mucosa is moist and smooth with rich blood vessels. Nasal drug droplets and intranasal atomization medication can not only locally diminish inflammation, resist the bacteria and viruses, unblock a stuffy nose and stop bleeding, etc., but also can act throughout the body. For instance, Antipyretic analgesicAnalginum can abate fever if nasally delivered in droplets.

Compared with intravenous drug delivery and other modes of administration, Intranasal medication has more advantages: For example, the activity of nasal mucosal hydrolase is lower than that of the gastrointestinal tract, which reduces the degradation of polymer compounds such as polypeptides, hormones, vaccines and other drugs and ensures drug delivery effect; Secondly, it can avoid the liver first-off effect and the damage to the liver caused by oral drugs, etc.; Thirdly, its high bioavailability can achieve brain targeted drug delivery; Finally, it is easy to operate and convenient for infants and children with few adverse reactions and good compliance.

In recent years, due to the special advantages of intranasal administration, nasal spray vaccines have also become a new direction for research and application. Studies have shown that nasal mucosal immunity can induce not only local mucosal immune responses, but also the systemic immune responses, whose effects are similar to subcutaneous immunization, and even more effective and intense than oral immunization. Nasal spray vaccines further enlarge the application of intranasal administration.

Pre-fillling COP Syringe with Luer Lock

Introduction

NEST Pre-filled COP Syringe with Luer Lock is a syringe made from Cycloolefin Copolymer (COP), mainly intended for the packaging and storage of high-end drugs and vaccines which can be used directly for injection, as well as other surgical irrigation in ophthalmology, otology, orthopedics, etc..

Compared with traditional syringes, NEST Pre-potting COP Syringe with Luer Lock have clear edges in terms of process and application.

Advantages

Secondary Contamination Avoided

Pre-injection drug dispensing process saved and drug contamination risk reduced.

• Precise Drug Ingredients Proportion

The proportion of drug ingredients is set at the factory to avoid changes in the proportion of on-site dispensing.

COP Merits

- Cycloolefin Copolymer (COP) are amorphous transparent polymers with a cyclic olefin structure that can be better dimensionally controlled than glass.
- High transparency, rigidity, heat/ fracture resistance; good water vapor tightness; and low birefringence, water absorption, etc.;
- Stable physical and chemical properties, low protein adsorption, good compatibility with drugs without de-tableting. Mature application cases indicate that COP material is used as the pharmaceutical packaging material by many drugs series globally ;
- Suitable for ethylene oxide sterilization and steam sterilization.

Luer Lock

The Luer Lock adopts the national standard design size and is compatible with other products which can connect with Luer Lock such as injection heads, spray heads, and infusion sets etc.. The connection is firm with top sealing strength.

Product Design

It adopts the design of Luer Cone head and Luer Lock in one, inside which the Luer Hole can connect to the needleless connection device.

It consists of 1 the syringe 2 butyl Protection Cap 3 piston 4 Push Assistor 5 Push Rod

• Product application

Pre-filled COP Syringe with Luer Lock is mainly intended for the packaging and storage of vaccines, biological agents and high value-added medicine. Currently, the proportion of therapeutic injectable drugs in the market is increasing year by year, and the application of pre-potting has been broadened to many of the following fields:

- Vaccines
- Anti-infectives
- Haematological agents
- Hormone therapies
- · Cancer therapies

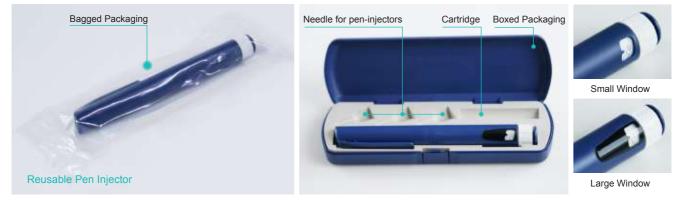
- Anti-coagulants
- Anti-inflammatory agents
- Multiple sclerosis therapies
- Obstetric agents
- Pain relievers



Pen Injector





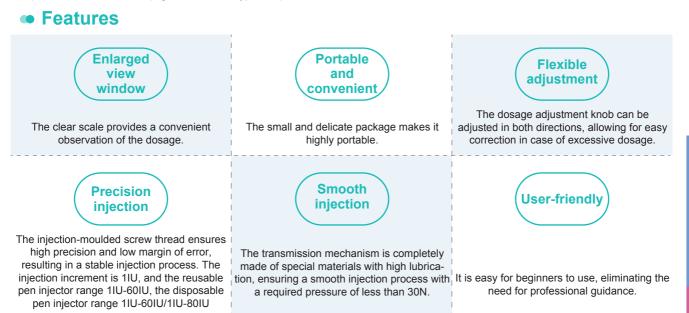


Pen Injector is a type of reusable liquid medicine injection device that contain liquid medicine solution with a syringe. The Liquid medicine medication is placed in the pen in a cartridge, eliminating the need to extract liquid medicine each time. To administer the medication, simply remove the pen cap, adjust the dial to the desired dose, and then perform the liquid medicine injection.

Currently, NEST Pen Injector are available in two categories: Reusable Pen Injector and Disposable Pen Injector. NEST Pen Injectors have been developed specifically for use with standardized 3mL injection vials and needles as outlined in ISO 11068-3 and 11068-2. This user-friendly device is not only reusable but also offers the convenience of dose adjustments according to individual needs, granting patients flexibility in self-administration. To pre-set the desired dosage, simply adjust the dosage adjustment knob to the required dose. The plunger handle of the injector operates by engaging gears, which in turn drives a screw thread to move radially. This radial movement simultaneously pushes the cartridge plunger within the medication chamber, causing the medication to be injected into patient's body through a disposable needle in a precise and accurate way.

Application

NEST Pen Injectors have been developed specifically for use with standardized 3mL injection vials and needles as outlined in ISO 11608-3 and 11608-2. This product can be used for a wide variety of self-injectable medications such as insulin, weight-loss drugs (e.g. semaglutide), interferon, horomones (e.g. testosterone cypionate) and others.





• Disposable Pen Injector

After use, throw away the pen with the refill and replace it with a new one.

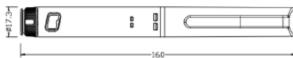
Convenier	Liquid medicine solution can be pre-filled into, eliminating the need for multiple refilling.
Hygienic and safe	
Accurate dosage	Dosage can be pre-set according to individual needs, granting patients the flexibility for their liquid medicine administration.

Supports customization

Supports customization in multiple colors.

Cat. No.	206301 206321			
Injection range	0~80 units (0.8mL) 0~60 units (0.6mL			
Packaging	1 pc/pk, 200 pcs/cs			
Material	Pen body: ABS			
Name	Disposable Pen Injector (NEST)			
Single Minimum Dose	e 1 unit (0.01 mL)			
Application	Suitable for a variety of disposable injection needles: such as BD, Jierui injection needles, etc. The needles must comply with ISO 11608-2. Applicable to the injection of standard 3 mL cartridge solution: 3 mL cartridge refills must comply with ISO 11608-3.			

Technical Drawing





Reusable Pen Injector

When the refill is used up, replace the refill for reuse.



206211 206321 **Bagged Packaging** (1 pc/pk, 200 pcs/cs) (1 pc/pk, 200 pcs/cs) 206212 206232 Boxed Packaging (1 pc/box, 100 boxes/case) (1 pc/box, 100 boxes/case) Plastic pen body Plastic pen body Description with small Window with large window Model No. NIVR-01 NIVR-02 Material Pen body: ABS Injection range 0 ~ 60 units (0.6 mL) Reusable Pen Injector (NEST) Name 1 unit (0.01 mL) Single Minimum Dose Compatible with disposable injection needles in line with ISO 11608-2, including Application BD, Jierui injection needles, etc; Compatible with standard 3 mL cartridge that complies with ISO 11608-3.



Plastic pen body with large window





Lab Safety

Nitrile Examination Glove



Colloidal Oatmeal Coated Nitrile Gloves

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Feature

- Made of nitrile, an alternative solution for people allergic to natural latex.
- Suitable for both left and right hand.
- Tensile Strength: Minimum 18.0 MPa (Before Aging).
- Rolled cuff design makes it easy to wear and prevents rollback.
- Textured fingertips increase friction for better gripping.
- · Powder-free.
- Non-Sterile.Single use only, powder free.
- · Boxed pull-out packaging.
- Made in Malaysia.
- Powder-free nitrile gloves weigh 3.5 grams.



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.

⇒pH

#



	woistunizing		Anti-Oxidation	
ソ	Keep skin moist through its moisture-locking capacity	I	Protects skin from oxidative damage	

Protect

5

Soothing

Forms an adhesive, closed barrier to protect skin from external stimuli

Relieves inflammation, irritation and itchiness and

boosts skin's restoration process

Restoring pH
Maintains skin's protective barrier function by restoring pH balance

Anti Ovidation

Clean

Acts as a natural cleanser to remove dead skin cells

Cat.No.	Size	Palm Width (mm)±4 mm	Length (mm)	/Pack	/Case
903001	XS	76		100	1000
903011	S	84		100	1000
903021	М	94	≥230	100	1000
903031	L	105		100	1000

• Nitrile Powder Free Examination Glove

Cat.No.	Size	Palm Width (mm)±4 mm	Length (mm)	/Pack	/Case
902001	XS	76		100	1000
902011	S	86	≥230	100	1000
902021	М	98		100	1000
902031	L	107		100	1000
902041	XL	115		90	900

• Nitrile Powder Free Examination Glove

Cat.No.	Size	Palm Width (mm) ± 5 mm	Length (mm)	/Pack	/Case
902101	XS	≤80		100	1000
902111	S	80	≥230	100	1000
902121	М	95		100	1000
902131	L	110		100	1000
902141	XL	≥110		90	900

Latex Examination Glove





Colloidal Oatmeal Coated Latex Gloves

Feature







- · Made of synthetic latex.
- Suitable for both left and right hand.
- Tensile Strength: Minimum 18.0 MPa (Before Aging).
- · Rolled cuff design makes it easy to wear and prevents rollback.
- Textured fingertips increase friction for better gripping.
- · Powder-free.
- Non-Sterile. Single use only, powder free.
- · Boxed pull-out packaging.
- Made in Malaysia.
- Powder-free latex gloves weigh 5.5 grams.

Colloidal Oatmeal Coated Latex Glove

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.

 $(\bigcirc$

pH

4

Moisturizing

Keep skin moist through its moisture-locking capacity

Protect

Forms an adhesive, closed barrier to protect skin from external stimuli

Soothing

Relieves inflammation, irritation and itchiness and boosts skin's restoration process

Anti-Oxidation

Protects skin from oxidative damage

Restoring pH

Maintains skin's protective barrier function by restoring pH balance

Clean

Acts as a natural cleanser to remove dead skin cells

Cat.No.	Size	Palm Width (mm)±4 mm	Length (mm)	/Pack	/Case
904001	XS	76		100	1000
904011	S	84	≥230	100	1000
904021	М	94		100	1000
904031	L	105		100	1000

Tip: Please store in a cool, dry place, and avoid direct sunlight.

• Latex Powder Free Examination Glove

Cat.No.	Size	Palm Width (mm)±4 mm	Length (mm)	/Pack	/Case
901001	XS	76		100	1000
901011	S	86	86		1000
901021	М	98	98 ≥230	100	1000
901031	L	107		100	1000
901041	XL	115		100	1000

Nonwoven Mask

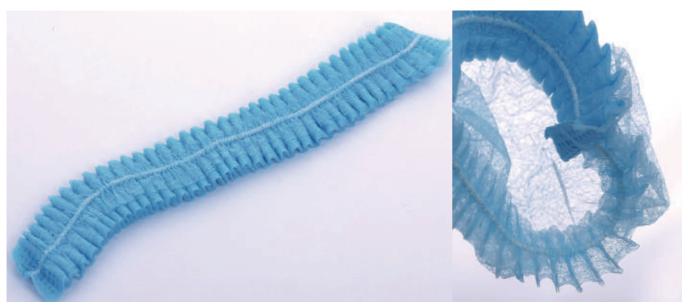


• Features

- 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		Color	/Pack	/Case
922001	922001 Three-layer PP Non-woven Lab Protection Mask		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.	Cat. No. Size(cm)		/Case
923001	923001 42 * 17		1,000



Lab Instrument

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	C Dubber Chine		
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		



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	Ф4.5mm
Max. Capacity	80mL
Max. Tube Diameter	Ф30mm
Speed	3000rpm
IP rating (DIN EN 60529)	IP40
Ambient Temp.	5~40 ℃
Outside Dimensions	Ф96xH85mm
Power	5W
Power Supply	AC100~240V,50/60Hz
Weight	0.55kg



Variable Speed Tube **Revolver with Digital Display**





Rotisserie Paddles For 10mL / 15mL Tubes



For 5mL / 7mL Tubes

Rotisserie Paddles



Rotisserie Paddles For 0.5mL / 0.8mL Tubes

Rotisserie Paddles

For 1.5mL / 2mL Tubes

Features

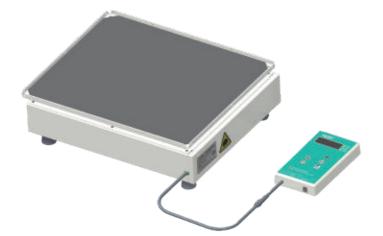
- Small footprint, "Plug and Play" operation;
- · Includes five different interchangeable rotisseries;
- Rotation direction can be changed by slightly touching the rotisseries;
- · Paddle angle is adjustable for different purposes;
- · High quality, maintenance-free motor with little noise.

Cat. No.	105004		
Rotation Speed	10~40rpm		
Capacity	84x0.5mL tubes, 60x1.5mL / 2.0mL tubes,		
Capacity	28x5mL / 7mL tubes, 24x10mL tubes, 6x50mL tubes		
	Rotisserie Paddles for 10mL / 15mL Tubes 2pcs		
Holder for Tubes	Rotisserie Paddles for 5mL / 7mL Tubes 2pcs		
	Rotisserie Paddles for 1.5mL / 2mL Tubes 2pcs		
Standard Configuration	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		



Rotisserie Paddles For 50mL Tubes

CO₂ Orbital Shaker



Features

- Orbital shaking through magnetic power eliminates the need to replace belts;
- Small footprint ideal for use in a CO₂ incubator;
- Specially treated mechanical components protect up to 20% CO₂ 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 CO₂ chamber are not effected;
- \bullet CO $_{\rm 2}$ resistant shaker can be used outside of CO $_{\rm 2}$ 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		
May Canacity	50mL x30 / 100mL x15 / 150mL x15 / 200mL x15 / 250mL x15		
Max.Capacity	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		



Aluminum Platform

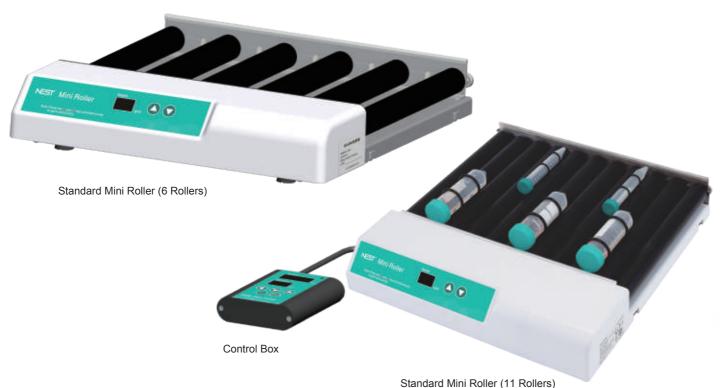
• Flask clamp feature

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

Cat.No.	Name	
	100mL Flask Clamp * 2	
	250mL Flask Clamp * 4	
105901	500mL Flask Clamp * 4	
103901-	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



• Features

- Variable speed to accommodate numerous applications.
- Anti-corrosive and wear-resistant construction for use in humid and CO₂ 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	Rollers: 11	Rollers: 6
	O Ring (23.5x3.6mm): 20	O Ring (23.5x3.6mm): 20
in Packaging	O Ring (13.2x2.7mm): 20	O Ring (13.2x2.7mm): 20
Roller Speed	0.5~80rpm	0.5~80rpm
Operating Mode	Way forward	Way forward
Roller Dimensions (DXL)	Ф28mmx259mm	φ28mmx259mm
Available Tubes or Bottles	Available Tubes or Bottles Max. Ø120mm bottles; tubes	
Positions	Centrifuge tubes can be placed randomly	Centrifuge tubes can be placed randomly
Positions	or three 1500ml standard bottles	or three 1500ml standard bottles
Max.Load	6.5kgs	6.5kgs
Ambient	5 °C ~60 °C	5 °C ~60 °C
Relative Humidity	≤95%	≤95%
Display	LED	LED
Timer (Control Box)	999min or continuous	1
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



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

NEST

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











Packaging (Reagent packaging) Lab Instrument

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.

Туре	Name	Centrifuge Range (RPM)	Max RCF (g)	Rotor
102001	Universal Centrifuge	ntrifuge 500-6,000	2,400	General Rotor
102001	ernversar eenninge			(1.2/05/1.5/5.0ml)
102002	E rel Contrifuno	500 0 000	0.400	For 5 mL
102002	102002 5 mL Centrifuge 500-6,000		2,400	Centrifuge Tubes
102101	Llink Cread Contrifue	500 40 000	0.000	For 1.5 mL & 2.0 mL
102101	High - Speed Centrifuge	500-12,000	8,800	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





Label Printer

BradyPrinter i5100 Label Printer

Brady i5100 label printer supports batch printing and integrates intelligent printing technology, making various complex printing tasks within your enterprise easier to accomplish.

Product Performance Advantages:

- Simple settings changes: The touch screen is easy to use for adjusting printer settings quickly.
- Comprehensive feature set: The printer has all the features needed for high-performance printing.
- Intelligent Printing (IP) technology: Software and con sumables that communicate with the printer eliminate debugging after consumable replacement and allow you to get back to work quickly.
- Intelligent loading design: Specially designed ribbon rewind spools and automatic centering label roll holders make consumables easy to replace without additional steps.
- Multiple hardware options: You can use a variety of con nection ports to connect to the devices you need and use replaceable rubber rollers to optimize printing effects for different labels.

Model	15100				
Handheld/Desktop	Desktop				
Power Supply	100 - 240V AC, 50/60 Hz, PFC				
Printing Method	Thermal transfer (300 or 600dpi) / direct thermal (300dpi - depending on material and printhead)				
Printing Resolution	300 dpi / 600 dpi				
Maximum Printing Width	4.16 inches (106mm)				
Maximum Label Width	0.20 inches (5mm) to 4.33 inches (110mm)				
Maximum Printing Speed	Maximum 11.8 inches (300mm)/second (300 dpi) Maximum 5.9 inches (150mm)/ second (600 dpi)				
Printing Color	Single color				

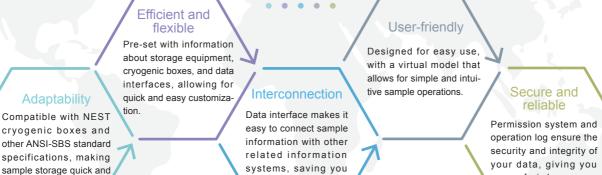
Memory	256MB				
Connectable to Computer	Yes				
Interfaces	USB 2.0, RS232-C, Ethernet 10/100 BASE-T, SD slot				
Keyboard	External				
Display Screen	Color LCD touch screen				
Dimensions	12.5 inches (318mm) x 9.5 inches (241mm) x 17.1 inches (434mm)				
Weigh	14.6 pounds (6.6kg)				
Maximum Power Consumption	Standby <10W / Normal 150W / Maximum 300W				
Software	Brady Workstation (v4.1 or higher) and Workstation applications, Brady LabelMark software (v6.6.1 or higher)				

Consumables Number	106091	106092
Consumables Name	Cryogenic Labels	Thermo Ribbon
Consumables Model	THT-163-499-3127mm*37.4mm	IP-R4302
Packaging	3000 pcs/roll	1 roll/box

Sample Management Software

NEST Sample Management System (SMS) is a comprehensive sample information management system for laboratories, medical units, and scientific research institutions. It streamlines multiple steps in the sample information process, including pre-processing, storage, queries. NEST SMS supports custom configurations according to on-site needs, without the need for special customization development. It links functional modules efficiently, ensuring simple and smooth inbound and outbound steps, complete information, and reducing the workload and human error risks associated with sample library management.

Software highlights



valuable storage space.

peace of mind.

Basic Functional Modules

easy.

- Regional equipment: visual equipment structure overview
- Sample management: custom, pre-entry, sample storage and retrieval
- Query and statistics: query and statistics of samples by location, custom fields, association information, and scanning
- Data management: data backup, batch editing of samples
- Associated information: can be docked with HIS, LIS, PACS, and other information systems to quickly improve sample information and save local space
- Label printing: human-readable barcodes and custom adhesive labels can be added
- Settings: custom storage equipment (refrigerator, liquid nitrogen tank, freezer rack, cryogenic box), custom sample information, user role settings, etc.

Advanced Functions

- Pre-set SQL Server, Oracle, MySQL data interface
- Quick association pre-entry
- · Custom sample number, encoding rule settings
- User permission management, log information inquiry
- Label printing scene settings.

Product Number	Product Specification
106131	NEST Sample Management Software-20 terminal devices
106132	NEST Sample Management Software-15 terminal devices
106133	NEST Sample Management Software-10 terminal devices
106134	NEST Sample Management Software-5 terminal devices
106135	NEST Sample Management Software-3 terminal devices



Single-Rack Reader

The NEST Single-rack reader is a device that rapidly decodes entire boxes of biological samples in biobanks and high-throughput laboratories. It is lightweight, compact, and can quickly decode various types of cryogenic boxes on-site. The device can simultaneously decode the entire box and read the cryogenic box code. When used with the NEST sample management software, it can directly decode and store entire boxes of samples. The device was grades are specified on the same set of the same set.

Cryogenic box plate rack

Decoding entire boxes of cryogenic tubes

- Decoding rules can be customized according to the cryo genic box specification (8*12, 6*8, 5*5, 9*9, 10*10, etc.)
- Non-standard decoding area can be specified for each position.
- Cryogenic box code
- Can be a one-dimensional or two-dimensional barcode on any side of the cryogenic box or a two-dimensional code at a certain position on the bottom of the cryogenic box.
- Cryogenic box code decoding does not require an external device.
- Cryogenic box code location can be automatically set by software.



- Enabling data integration with systems such as HIS, LIS, PACS, EMR, etc.
- Open database interface can be implemented through the pre-configured Oracle, SQL Server, MySQL of the system without the need for customized development.
- Matching software and interface services
- Operating system: Windows XP or higher version.
- One-click cryogenic box numbering and entire box cryogenic tube decoding.
- Cryogenic box template can be customized.
- Decoding results can be displayed through graphics, lists, and images.
- Decoding results can be exported to Excel files.
- HTTP service interface can be started with one-click to automatically generate URL addresses.
- HTTP service call return results consistent with the direct software interface operation results.

Mainframe framework

- Small and portable size: 220*175*220mm (length * width * height).
- Light weight: about 1.5 kg.
- Operating environment -20 $^\circ\!\!\!C$ ~ 35 $^\circ\!\!\!C$.

Camera

- Dust-proof and waterproof tempered glass protection above the camera
- Plug and play, no need to install drivers.

Product number	106211
Product model	Single-rack reader NSSnap, English

Lab Instrument

X 130

• USB data cable/power switch

- Standard USB2.0 interface, no external power supply required, low power consumption (1W-4W).
- Standby power consumption less than 1W, and photo decoding power consumption is less than 4W.

Multi-Rack Reader

Multi-Rack Reader

- Partial scanning according to the number of cryogenic boxes.
- Scanning results in various ways such as graphics, lists, and images.
- Full-frame decoding less than 10 seconds, single-box scanning within 3-5 seconds.
- Excel export of a single box or merged multiple boxes.
- Decoding application for scanning bottom QR codes for integration (single-rack/multi-rack) based on the Windows system.
- Fast scanning of inbound and outbound barcodes, greatly improving work efficiency.
- Number and type of cryogenic boxes customization.
- Compatible with major brands of cryogenic tubes on the market.
- Compatible with various scanning racks to meet different quantity requirements.



Product number	106212	Sc
Product model	Multi-rack reader NSScanner, English	Ra
Product type	Flatbed	Pr
Maximum scanning range	216×297mm	Pc co
Scanning component	ССD	Da
Optical resolution	4800×9600dpi	Su
Scanning speed	Full-frame scanning ≤ 6 seconds	Ma

Scanning light source	LED light source
Rack types	SBS box + traditional square box, 2 traditional square boxes, 3 SBS boxes
Product size and weight	443.5×278.6×54mm 2.14kg
Power/power consumption	220V/18W
Data interface	Provides HTTP access service to return a JSON string containing the position and cryogenic tube code
Support system	Windows2000/XP/Vista/7/10
Machine brand	EPSON

Barcode Scanner

The barcode and DATAMATRIX code on the cryogenic tube can be scanned using a barcode scanner to quickly obtain information related to the sample.

The scanning result can be directly input into the sample library management system, facilitating the subsequent sample tracking and management.

The barcode scanner has the following features: high efficiency, high accuracy, easy to operate, and strong durability.

- Quick recognition of electronic screen codes: can scan one-dimensional and two-dimensional codes and traditional paper barcodes, and has strong decoding ability for electronic screen QR codes.
- High-speed rebound button: 5 million fatigue tests, still maintaining good button effects.
- Adaptus6.0 imaging technology: upgraded barcode image acquisition technology combined with custom sensors to achieve extended depth of field and fast reading.
- Sturdy and durable shell: using a new generation of high-strength ABS materials, it can withstand a 1.5m free fall impact.
- Classic commercial appearance: loved by international brands, simple and versatile design, naturally formed.



Handheld Decapper for Cryogenic Vials



Product introduction

NEST decapper is available in 1, 8, 24, 48, and 96 channel models, suitable for use in biobanks, genetic sequencing, disease control centers, blood centers, laboratory automation, pharmaceuticals, and other industries.

Features

- Improved efficiency: significantly improves efficiency compared to manual operations
- Safety requirements: prevents laboratory personnel from contacting samples or reagents when opening or closing caps, reducing the risk of biological and chemical hazards.
- Sealing guarantee: the uniform torque design of the automated decapper prevents caps from being closed improperly or damaging the cryogenic vial due to uneven hand force.
- Wide compatibility: easily opens and closes all NEST 2D barcode cryogenic vials, and is also suitable for other brands with the same cap clasping mechanism.

Product parameters

Product name	Handheld Decapper for Cryogenic Vials				
Product number	106002				
Empty load speed	170rpm				
Manual torque	2N.m				
Electric torque	0.25-0.35N.m				
Battery type	Lithium battery				
Battery voltage	3.7V				
Battery capacity	260mAh				
Charging time	45 minutes				

Cell Thawing Device



Product Features

- Small size, less space on the workbench.
- Especially suitable for scenarios with few samples to be thawed and resuscitated.
- The LCD screen can display the real-time temperature of the sample.
- Has account management and data export functions
- Comes with a transfer container for transferring cryogenic tubes.

Product Introduction

To better meet the needs of applications with small sample quantities and reduce user procurement costs, NEST has launched the NEST cell thawing device, which integrates real-time temperature data display. NEST cell thawing device uses "resistive heating", "programmed temperature control", "low temperature sensing" and other technologies to achieve cell thawing and resuscitation. The built-in temperature monitoring system identifies the surface temperature of cryogenic tubes and each stage temperature during the solid-to-liquid thawing and resuscitation process. Even if there are frozen storage labels and marker pens on the surface, the thawing effect will not be affected. Customizable thawing and recovery solutions for all types of frozen cell storage tubes, whether they are stored in liquid nitrogen or at -80°C.

The thawing time of the NEST cell thawing device is basically the same as that of a water bath. It takes 1 minute to preheat, about 1 minute and 10 seconds for the melting stage, and about 1 minute and 20 seconds for the thawing and resuscitation stage. The cell survival rate of thawing and resuscitation is similar to that of a water bath.

Product Name	NEST Cell Thawing Device					
SKU	106007					
Model	LA-G002					
Throughput	2 holes, each hole can be used independently					
Application	2.0ml standard cryogenic tubes					
Filling volume	0.8-1.5ml					
Thawing time	3 minutes					
Alarm	Low temperature alarm, error operation alarm					
Prompt sound	Preheating end prompt, thawing countdown prompt, thawing end prompt					
Thawing and resuscitation end	Cryogenic tube pops out directly					
Size (L * W * H)	23 * 14 * 16cm					
Weight	3.5kg					
Voltage	220V, 50Hz					
Warranty	One-year warranty for the whole device					

Operating procedures





02 Insert the cryogenic tube into the hole



03 The thawing instrument automatically thaws



03 After thawing is complete, the cryogenic tube pops out

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Pipette



121°C FULLY Autoclavable

Features

- Available as Fixed Volume and Adjustable Volume formats.
- Streamlined shape design.
- Comprehensive volume range from 0.1 µL to 10mL.
- Easy calibration and maintenance.
- 8 and 12 channel pipette options.
- Dispensing head rotates for effortless pipetting convenience.
- Individual piston and tip cone assembly.
- Spring loaded tip cones for easy cleaning and maintenance.
- Compound material-made tip cone secures high sealing performance.



Mechanical Pipette Volume Selection

Specifications This volume list is for MicroPette and MicroPette platsleAdjdstixed volume)

				Error limits in accordance with IS08655-2				
Cat.No.	Volume Range	Increment	Test Volume	Systema	tic Error	Random Error		
	μL	μL	μL	μL	%	μL	%	
			2.5	±0.0625	±2.50	±0.05	±2.00	
104011	0.1-2.5	0.05	1.25	±0.0375	±3.00	±0.0375	±3.00	
			0.25	±0.03	±12.00	±0.015	±6.00	
			10	±0.1	±1.00	±0.08	±0.80	
104012	0.5-10	0.1	5	±0.075	±1.50	±0.075	±1.50	
			1	±0.025	±2.50	±0.015	±1.50	
		0.5	20	±0.18	±0.09	±0.08	±0.04	
104013	2-20		10	±0.12	±1.20	±0.1	±1.00	
			2	±0.06	±3.00	±0.04	±2.00	
		5-50 0.5	50	±0.3	±0.60	±0.15	±0.30	
104014	5-50		25	±0.225	±0.90	±0.15	±0.60	
			5	±0.1	±2.00	±0.1	±2.00	
			100	±0.8	±0.80	±0.15	±0.15	
104015	10-100	1	50	±0.5	±1.00	±0.2	±0.40	
			10	±0.3	±3.00	±0.15	±1.50	
			200	±1.2	±0.60	±0.3	±0.15	
104016	20-200	1	100	±0.8	±0.80	±0.3	±0.30	
			20	±0.6	±3.00	±0.2	±1.00	
			1000	±6	±0.60	±2	±0.20	
104017	100-1000	5	500	±3.5	±0.70	±1.25	±0.25	
			100	±2	±2.00	±0.7	±0.70	

User calibration should refer to the industrial standard ISO8655-2.

Bulk, Non-sterile	Racked, Sterile	Product Desciription	0.1~2.5µL 104011	0.5~10µL 104012	2~20µL 104013	5~50µL 104014	10~100µL 104015	20~200µL 104016	100~1000µ 104017
-	314016	10µL filter universal pipette tips, extra long, clear	\checkmark	\checkmark					
314001	—	10µL universal pipette tips, extra long, clear	\checkmark	\checkmark					
—	311012	10µL filter universal pipette tips, clear	\checkmark	\checkmark					
311001	_	10µL filter universal pipette tips, clear	\checkmark						
301006	301016	10µL universal pipette tips, clear	\checkmark	\checkmark					
_	310012	20µL filter universal pipette tips, clear			\checkmark				
316001	316012	100µL filter universal pipette tips, clear				\checkmark	\checkmark		
312001	312012	200µL filter universal pipette tips, clear					\checkmark	\checkmark	
302106	302116	200µL universal pipette tips, yellow			\checkmark	\checkmark	\checkmark	\checkmark	
305006	305016	300µL universal pipette tips, clear			\checkmark	\checkmark	\checkmark	\checkmark	
313001	313012	1000µL filter universal pipette tips, extra long, clear							\checkmark
303206	303216	1000µL universal pipette tips, blue							\checkmark
304006	304016	1250µL universal pipette tips, clear							\checkmark

Note: Due to the easy loosening of the filter of the bag-packaged tips, there may be a situation of not fitting in this combination. Not recommended.

CHEMICAL RESISTANCE CHART

	ABS	1	HDPE	LDPE	PC	РР	Santo-	Sili	Reagent	ABS	Acetal	HDPE	LDPE	PC	PP	Santo-	Sili
	1100	ricetur	IIDI L	LDIL	10	11	prene	cone	reugent	7125	ricetur		LDIL	10		prene	cone
Acetaldehyde	D	A	C	C	C¹ D	A ¹	-	A B	Benzene Benzene Sulfenie Asid	D	A ¹	D	D	D	D	D	D
Acetamide Acetate Solvent	_	A _	A	A	– –	A ¹ B ¹	_	С	Benzene Sulfonic Acid Benzoic Acid	_	— В	A A	A ¹ A ¹	D B1	D B ¹	-	D B
Acetic Acid	D	D	A	A² A	B1	B	Α	С	Benzol	D	A	-	C ¹	B¹ D	B1 B	D	D
Acetic Acid 20%	С	C	A		A¹ B¹	A	A	B B	Benzonitrile	_ D	_	_	_	A ¹	- C1	-	A¹ D
Acetic Acid 80% Acetic Acid, GlacialD	D D	D A	A D	D B1	B' A1	A D	C B	в	Benzyl Chloride Bleach	B	A D	_		_			_
Acetic Acid, Vapors	-	-	-	-	-	-	-	Α	Bleaching Liquors	-	-	-	A ¹	-	A ¹ B	-	В
Acetic Anhydride Acetone, 50% water	C1 D	D	C	D _	D	B¹ A	D _	С	Borax (Sodium Borate) Boric Acid	_	B	A A	A ²	_	B A	Ā	B A
Acetone	D	A	D	- B ¹	D	A	Ā	A² D	Brewery Slop	_	B	-	A ²	_	_	_	_
Acetonitrile	D	-	A	A	D	A¹ C	D	D	Bromine	D	D	D	D	C¹ D	D	-	D
Acetophenone Acetyl Bromide	_	-	C	D	D	C _	_	_	Bromoform Butadiene	_	Ā	D D	D D	D D	D C		— D
Acetyl Chloride (dry)	D	D		D	D	D	Ā	c	Butane	B	Â	_	C ¹	D	A1		D
Acetylene	-	A	-	D	D	A ¹	-	В	Butanol (Butyl Alcohol)	-	A	-	B ²	B¹	A1	В	В
Acrylonitrile Adipic Acid	D		A	A	D	A ¹	D	D	Butter Buttermilk	B B	A	_	-	_	-	D	B A
Alanine	_	_	Â	Â	A	B² A	_	_	Butyl Amine	_	C ¹	_	A ¹ C ¹	A¹ D	A ¹ B ¹		B ¹
								_	Butyl Ether	-	D	-	-	-	D	-	D
- Benzyl	A1 D	A	A B	B ² D	B ¹	B¹ A	A D	D _	Butyl Phthalate Butyl acetate	_	Ā	A B		D D	B ²	-	A1 D
- Butyl	A ¹	A	-	A	— A ²	Â	B	В	Butylene	-	A	-	C ¹ B ¹	D	B ¹	-	D
- Diacetone	-	A	A	B ¹ B	-	B² A	_	D	Butyric Acid	D	A	D	B¹ D	D	B1	A	D
- Ethyl - Hexyl	B ¹	A ¹ A	A _	A	B ²	A _	A _	B B	Calcium Bisulfate Calcium Bisulfide	_	_ D	_	- D1	D	Ā	_	C C
- Isobutyl	В	A	A	A ²	-	A ¹	-	Α	Calcium Bisulfite	-	D	Α	B ¹ A ¹	D	A	-	Ă
- Isopropyl	-	A	A	A ²	A ²	A ²	_	A	Calcium Bromide 38%	-	_	-	-	-	-	-	-
- Methyl - Octyl	D	A	A _	A ¹	B ¹	<u>A</u> ²	A _	A B	Calcium Carbonate Calcium Chlorate	_	A	_	B ¹	<u>C</u> ²	A _	-	A _
- Propyl	A ¹ B ¹	Â	-	- A ²	_	А	Ā	A	Calcium Chloride (30% in water)	B	D	Α	- B ²	_		_	А
Allyl Chloride	B¹ D	-	A	-	-	A	-	-	Calcium Chloride (saturated)	А	D	Α	-	-	A ² A	-	А
Aluminium Acetate (satured) Aluminium Chloride	Ā		Ā	- B ²	-	A A	_	D B	Calcium Fluoride Calcium Hydroxide 10%	_	Ā	Ā	-	_	Ā	-	Ā
Aluminium Chloride 20%	-	С	A	B ²	A ¹ A ¹	A	-	В	Calcium Hydroxide (saturated)	А	_	A	-	-	A	-	A
Aluminium Fluoride	A	C	A	A ²	-	A	-	В	Calcium Hydroxide	-	D	A	A ²	D	A ²	-	A
Aluminium Hydroxide Aluminium Nitrate	B 	A	A _	A ²	B ¹	A	_	— B	Calcium Hypochlorite 30% Calcium Hypochlorite (saturated)	Ā	-	A	_	_	A	_	- 1
Aluminium Phosphate	-	B ¹	-	A ²	A1 _	<u>A</u> ²	_	Ă	Calcium Hypochlorite	_	D	A	A ¹	D	A	_	В
Aluminium Potassium Sulfate 10%	-	C	A	A ²	A1	A	-	A	Calcium Nitrate	A	D	В	A ¹	A ²	A ² A	-	₿¹
Aluminium Potassium Sulfate 100% Aluminium Sulfate	- A 2	C B ¹	A	A ²	A² A	A A	Ā	A A	Calcium Oxide Calcium Sulfate	D C	A D	_	B ¹	- A 2	A		A _
Alums	<u>A</u> ²	-	-	A² A	-	A	-		Calcium Sulfide	_	-	-	B ¹	<u>A</u> ²	A	-	-
Amines	-	D	B	C ¹	-	B ²	-	A1 B	Calgon	-	A	-	-	-	A	-	A
Ammonia 10% Ammonia Nitrate	_	D C	A _	C ¹	D —	A² A	_	_	Cane Juice Carbolic Acid (Phenol)	_ D	A D	_	_ D	– D			A D
Ammonia, anhydrous	D	D	A	B ²	D	A	-	С	Carbon Bisulfide	-	A	-	_	_	D	_	-
Ammonia, liquid	-	D	A	C ¹	D	A ²	-	-	Carbon Dioxide (dry)	В	A	-	A ¹	-	A ²	-	В
Ammonium Acetate Ammonium Bifluoride		— D	A _	A A ²	_	A A	_	_	Carbon Dioxide (wet) Carbon Disulfide	В	A _	— D	A ¹	_ D	A ² D	-	В
Ammonium Carbonate	A ²	D	В	B ²	-	A	-	С	Carbon Monoxide	-	A	-	A ² D	-	A	-	A² D
Ammonium Caseinate	-	D B	A	-	-	Ā	-	- c	Carbon Tetrachloride	D D	B1	C C	D	D	D	-	D D
Ammonium Chloride Ammonium Fluoride 25%	A² D	р —	A	A ²	A ²	A A⁴	_		Carbon Tetrachloride (dry) Carbon Tetrachloride (wet)	D	- A ¹	C		_	D		D
Ammonium Hydroxide	В	С	A	A ¹	D	Â	-	Α	Carbonated Water	_	A	-	A	-	B	-	-
Ammonium Glycolate	-	-	A	A	В	A	-	-	Carbonic Acid	_	B ¹	В	R ²	A^1	A	-	A
Ammonium Nitrate Ammonium Oxalate	_	A ² B	A	A ¹	- A1	A A	_	_	Catsup Cellulose Acetate	B	B	_	_	_	A		- 1
Ammonium Persulfate	A ²	D	Â	A ²	-	Α	-	D	Chloral Hydrate	А	-	D	-	-	D	-	-
Ammonium Phosphate, Dibasic Ammonium Phosphate, Monobasic	A ²	B ² B		A² A	A ²	A A	_	A A	Chloric Acid Chlorinated Glue	_	D D	-	-	_	-	-	-
Ammonium Phosphate, Monobasic Ammonium Phosphate, Tribasic	_	B	_	C A	_	A	_	A	Chlorine Water	_	D	C C		_		_	– D
Ammonium Sulfate	A ²	B ¹ D	A	A ¹	A ²	Α	-	А	Chlorine Anhydrous Liquid	-		С	B ¹ D	С	D	-	D
Ammonium Sulfite Ammonium Thiosulfate	_	D B	B	B ² A	_	A _	_	_	Chlorine (dry) Chloroacetic Acid	_		B A	D D	_ D	D		D D
Amyl Acetate	D		-		D	— В1	D	D	Chlorobenzene (Mono)	D	D	D		D		D	D
Amyl Alcohol	A1 D	B ¹ A	A	B ² D	B¹	B1 D	А	D	Chlorobromomethane	_	_	-	C ¹ A	-	C ¹	-	D
Amyl Chloride Aniline	D D	A	B	D C	— D		— D	D B	Chloroform Chlorosulfonic Acid	D	A D	D D	C ¹ D	D		D	D D
Chloralhydrate	-	A ¹		-	_	A ¹	_	-	Chocolate Syrup	-	A	_	_	C¹ A		_	-
Aniline Hydrochloride	D	-	-	D	D	D	-	D	Chromic Acid 5%	В	D	A	A	В	A ² D	D	C
Antifreeze Antimony Trichloride	B A2	D _	- B	- D2	- A2	D A	Ā	C _	Chromic Acid 10% Chromic Acid 30%	B B	D D	A	A	B C	D	D	C C
AquaRegia (80% HCI, 20% HNO ₃)	A² D		D	B ² B ¹	A² D		D	D	Chromic Acid 50%	D	D	A	A	D	D	D	C
Arochlor 1248	-	-	-	C ¹ C	-	B ¹ D	-	В	Chromium Salts	-	-	-	В	-	-	-	-
Aromatic Hydrocarbons Arsenic Acid	- •	A D	— B		-	D A	— B	D A	Cider Citric Acid	_ D	A	Ā	B D	A	A	Ā	B¹ A
Arsenic Salts	A ²	-	-	B ² B	A1 _	_ _	-	-	Citric Oils	_	B ¹ B	B	-	<u>A</u> ¹	Â	-	-
Asphalt	-	B ²	-	A ¹	D	B ¹	-	D	Coffee	_	A	-	-	-	A	-	А
Barium Carbonate Barium Chloride	A ²	A	— В	B ²	A² A	A A	_	Ā	Copper Chloride Copper Cyanide	A _	A	_	- D2	_ D	A	-	A¹ A
Barium Cyanide	<u>A</u> ²	B	-	A1 B	-	D	_	-	Copper Fluoborate	_	B	_	B ²	-	-	_	-
Barium Hydroxide	A ²	D	-	B ²	D	В	-	A	Copper Nitrate	-	A	-	B ²	D	A	-	-
Barium Nitrate Barium Sulfate	-	B ²	— В	B ²	D D	A	_	B A	Copper Sulfate 5% Copper Sulfate >5%	_	D D	A A	A ²	A ¹	A	-	A A
Barium Sulfide	A ² A ²	B ² A	A	B ² B ²	-	B¹ B	_	A	Copper Suilate >5%	_	A	- A	A ²	A ¹	A	-	A _
Beer	A ²	A ¹	A	A ²	A ²	A ¹	-	Α	Creosote	А	D	Α	-	-	-	-	D
Beet Sugar Liquids	В	В		A 1	-	A1 D	-	A	Cresols	D	D	D	C1	D	D	D	D
Benzaldehyde Benz enamine	В —	A _	B	A ¹ A	D D	A	D _	D _									
					-												

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

- 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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