



Product Catalog 2021

Striving For Better Life



 **SPL**
SPL LIFE SCIENCES
CE ISO 9001 ISO 13485

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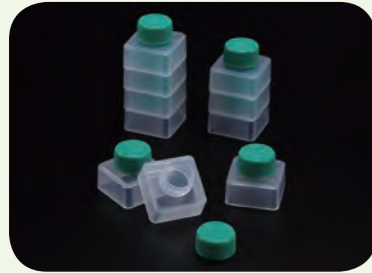
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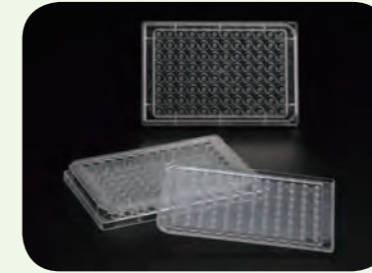
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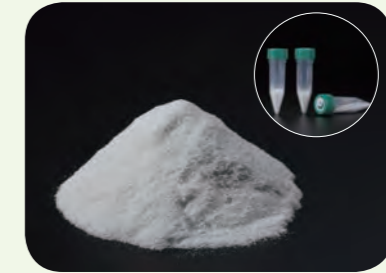
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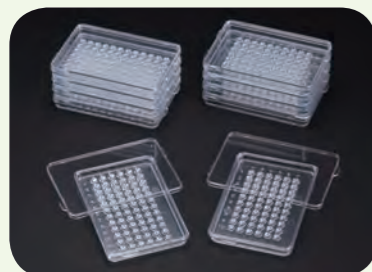
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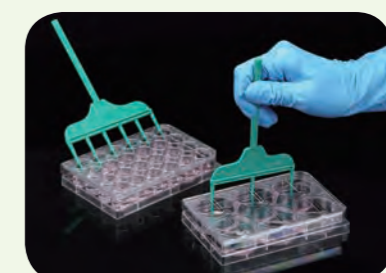
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Striving for
Better Life

SPL Life Sciences

SPL Life Sciences Co., Ltd. is a leading manufacturer / exporter of scientific plastic lab-ware in Korea. Since established in 1987, we have been dedicated to manufacture high quality plastic lab-ware complying with the finest standards in the industries. With a team of enthusiastic professionals continuously engaging in research, development and quality control, we are proud to be known to produce products fully satisfying the international regulatory requirements.

For over the three decades in the industry, we have gained enormous amount of knowledge and experiences. Our highly qualified and experienced personnel strive for their best to produce high quality products at competitive prices. Along with the dominant position in the domestic market, we have excelled in the international trade with customers in the United States, most countries in Europe and Asia. We are rapidly gaining international reputation by promptly developing most advanced products used in life science field.

We, SPL Life Sciences, are committed to meet the needs of the customers on providing up-to-date life science technology. With active investments in the Research & Development, we are offering even more innovative solutions in a wide range of life science applications.



English



Korean

Sterility

The sterility of SPL products is fully validated and qualified to be in compliance with ISO 11137-1 regulatory requirements that includes the routine control of sterilization process. Randomized selection, examination and monitoring ensures the overall process and products, labeled as sterile, are within the predetermined limits with an SAL (Sterility Assurance Level) of 10^{-6} .

Non-cytotoxic

The cytotoxicity of SPL products is routinely tested according to the principles of the MEM Elution, described by the FDA guidelines.

Non-pyrogenic

Endotoxin level of SPL products are tested according to the principles of the LAL (Limulus Amoebocyte Lysate) test, described in the FDA guidelines for medical products, and certified to be non-pyrogenic with a documented endotoxin level of less than 0.01 EU / ml.

DNase / RNase-free

SPL products are routinely tested according to the Standard Operating Procedure of SPL Life Sciences, and certified to be less than 1×10^{-6} Kunitz units for DNase, 1×10^{-9} Kunitz units for RNase.

Human DNA-free

The human DNA of SPL products are routinely tested according to the Standard Operating Procedure of SPL Life Sciences, and certified to be less than 2 pg for human DNA.



01

Cell Culture

For more than a century, cells have provided humanity with deep and fascinating insights into nature. Being a common laboratory technique, cell culture is one of the most critical aspects in biology-related researches and industries.

SPL provides customers with a wide range of high quality cell culture products, including cell culture flasks, cell culture dishes, microplates, cryovials and other essential accessories.

All SPL products meet the international guidelines including ISO 9001 and USP class VI compliance.

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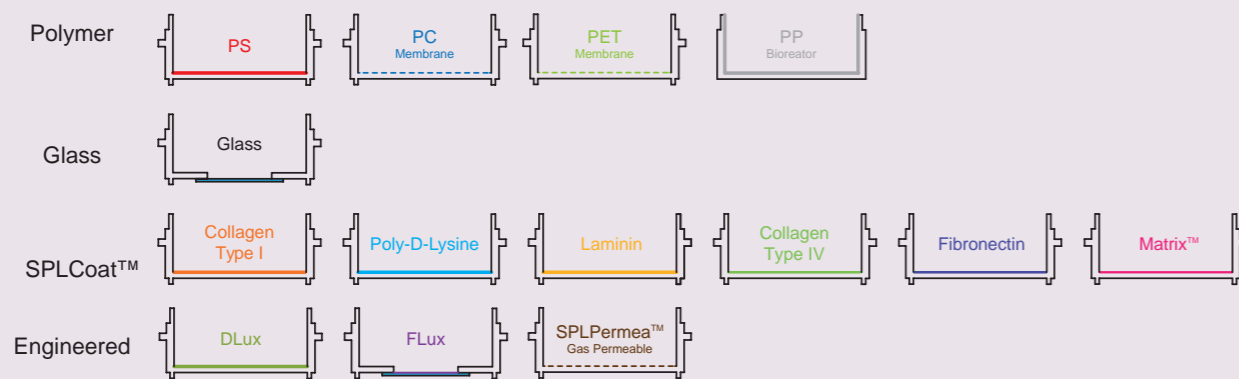
1. Cell Culture

For more than a century, cell culture researches have provided humanity with deep and fascinating insights into nature. Being a common laboratory technique, cell culture is one of the most critical aspects in biology-related researches and industries.

SPL Life Sciences provides customers with a wide range of high quality cell culture products, from basic cell culture vessels to more advanced platforms and accessories.

All SPL cell culture products meet international guidelines / regulations, such as ISO (International Organization for Standardization), ANSI (American National Standard Institute) and USP (United States Pharmacopeia, class VI). Polymer resins used to manufacture all products have followed international guidelines such as CONEG, SARA, Reach EC / 1907 / 2006, RoHS 2002 / 95 / EC. Biological tests (endotoxin, cytotoxicity, DNase / RNase / DNA) as well as cell attachment tests are regularly performed for quality control.

Surfaces & Materials of SPL Life Sciences Cell Culture Products



Surfaces

SPL Life Sciences offers a great diversity in surface conditions suitable for optimal cell growth. The suitability and efficiency of such treatments are routinely confirmed.

Cell Culture-Treated	Optimal surface that facilitates cell attachment and growth, perfectly got most applications involving adherent cell culture.
Non-Treated	Naturally charged and relatively hydrophobic compared to treated surface, better for suspension cell culture.
SPLCoat™	Uniform coatings of ECM proteins/chemicals that enhance cell attachment, growth and differentiation.

Materials

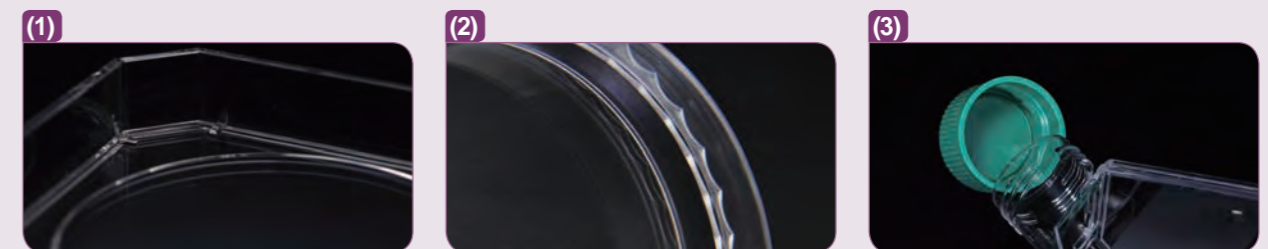
Polystyrene (PS)	Made of optically clear and transparent polystyrene suitable for observation. Polystyrene is especially useful material option in cell culturewares since it promotes cell binding, and is applicable to all surface treatments.
Glass	Naturally charged and relatively hydrophobic compared to treated surface, better for suspension cell culture.
DLux	Surface modified plastic for enhanced cell attachment, with minimal autofluorescence and high chemical resistance.
FLux	Surface modified plastic film for enhanced cell attachment, optimal for confocal microscopy.
Permea™	Engineered gas-permeable membrane that allows rapid equilibration between partial pressures of oxygen in the atmosphere and the ware.
Polycarbonate (PC)	Provided in porous membrane that is stain-free, low background interference.
Polyethylene terephthalate (PET)	Provided in porous membrane that retain high chemical resistance and low protein binding property.
Polypropylene (PP)	Biocompatible polymer for suspension culture.

	Surfaces			Materials								
	Cell Culture-Treated	Non-Treated	SPLCoat™	PS	Glass	DLux	FLux	Permea™	PC	PET	PP	Nylon
Cell Culture Ware	•	•		•							•	
SPLCoat™			•	•	•							
Cellular Imaging	•	•		•	•	•	•					
SPL3D™	•	•										
SPLInsert™	•	•		•					•	•	•	
SPLPermea™	•							•		•		•
SPLScar™						N/A						
In vitro Fertilization	•	•		•								
Cryoware						N/A						
SPLFlow™							•					
Accessories						N/A						

1-1. Cell Cultureware

SPL Cell Culture Wares are ergonomically designed to maximize safety, efficiency and convenience in cell culture experiments, to meet the demands of all users.

- (1) Unique internal design for effective gas exchange.
- (2) External grips for preventing slipping and enabling easy distinction.
- (3) Venting position for T175 Cell Culture Flasks: plug cap turns clockwise smoothly until soft "click" indicates reaching the venting position. For gas-tight state, additional force is required to close the cap completely.







	Surfaces			Materials					
	Cell Culture-Treated	Non-Treated	SPLCoat™	PS	PP	PC	PET	HDPE	PTFE
Cell Culture Flask	•	•	•	•				•	
Cell Culture Dish	•	•	•	•					
Cell Culture Plate	•	•	•	•					
Square Dish	•			•					
Tray Plate	•			•					
Roller Bottle	•	•		•				•	
Erlenmeyer Flask		•			•	•			
Square Bottle		•					•	•	
Bioreactor		•		•	•			•	•

Cell Culture Flask





Culture flasks of SPL Life Sciences are ergonomically designed for easy handling, while achieving minimal contamination during cell culture. Short, wide and angled neck design enables easy access of serological pipettes and cell scrapers. Flasks are divided into 14 types, depending on the culture scale and the cap type (and surface treatment); cell growth area for T25, T75, T175 and T225 are 25 cm², 75 cm², 175 cm² and 225 cm², respectively. Each flask can be provided with plug or filter caps.

- Ergonomic design to facilitate easy handling and minimize contamination
- Short & wide neck with angled design allows easy access
- Excellent stackability
- Plugs & filter caps are available for all flask models
- A range of cell growth area for T25, T75, T175 and T225 are 25 cm², 75 cm², 175 cm² and 225 cm²
- Venting position for 175 cm², 225 cm² plug cap model (Cat. No. 72175, 73175, 701225)
- Non-treated models (for suspension culture) are provided with the white caps
- Non-pyrogenic
- Non-cytotoxic
- DNase / RNase-free
- Human DNA-free




Cell Culture Flask 25 cm²

Type	Cat. No.	Material (Body / Cap)	Cap Type	Growth Area (cm ²)	Working Vol. (ml)	Total Vol. (ml)	Surface Treatment	Sterile	Packaging
	70025	PS / HDPE	Filter	25.00	7.00	60.00	+	+	5 / 200
	70125	PS / HDPE	Plug	25.00	7.00	60.00	+	+	5 / 200
	70325	PS / HDPE	Filter	25.00	40.00	60.00	-	+	5 / 200
	70225	PS / HDPE	Plug	25.00	40.00	60.00	-	+	5 / 200

Cell Culture Flask 75 cm²

	70075	PS / HDPE	Filter	75.00	25.00	250.00	+	+	5 / 100
	70175	PS / HDPE	Plug	75.00	25.00	250.00	+	+	5 / 100
	70375	PS / HDPE	Filter	75.00	170.00	250.00	-	+	5 / 100
	70275	PS / HDPE	Plug	75.00	170.00	250.00	-	+	5 / 100

Cell Culture Flask 175 cm²

	71175	PS / HDPE	Filter	175.00	50.00	650.00	+	+	5 / 40
	72175	PS / HDPE	Plug	175.00	50.00	650.00	+	+	5 / 40
	74175	PS / HDPE	Filter	175.00	450.00	650.00	-	+	5 / 40
	73175	PS / HDPE	Plug	175.00	450.00	650.00	-	+	5 / 40

Cell culture Flask 225 cm²

	700225	PS / HDPE	Filter	225.00	60.00	850.00	+	+	5/25
	701225	PS / HDPE	Plug	225.00	60.00	850.00	+	+	5/25

For surface coated Cell Culture Flasks (SPLCoat™- Collagen type I & IV, Poly-D-Lysine, Laminin, Fibronectin, Matrix™) → (21 - 26p)






Cell Culture Dish

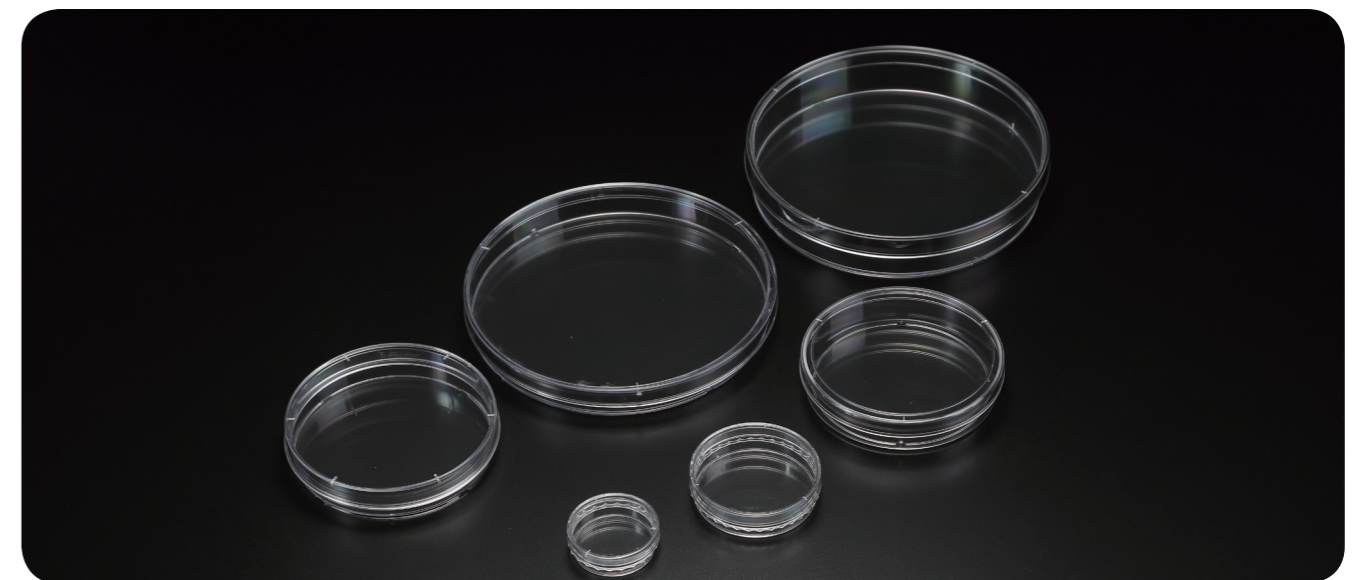
SPL Life Sciences provides a wide range of Cell Culture Dishes with the highest quality. All of the Cell Culture Dishes are produced with optically clear, high quality polymers for microscopy.

- Unique lid inner design for effective gas exchange
- External grip for better handling (Cat. No. 11035, 11060, 20035, 20060, 20101)
- Excellent stackability
- Compliant with USP guideline (USP class VI tested)
- Non-pyrogenic
- Non-cytotoxic
- DNase / RNase-free
- Human DNA-free

Cell Culture Dish

Type	Cat. No.	Dish Style d x h (mm)	Internal Dimensions d x h (mm)	Growth Area (cm ²)	Working Vol. (ml)	External Grip	Surface Treatment	Sterile	Packaging
	11035	35.00 x 10.00	35.00 x 9.60	9.40	3.00	+	-	+	10 / 500
	11060	60.00 x 15.00	52.80 x 12.80	21.50	5.00	+	-	+	10 / 500
	11090	90.00 x 15.00	85.73 x 12.60	57.50	12.50	-	-	+	10 / 500
	11150	150.00 x 20.00	138.57 x 15.40	148.00	35.00	-	-	+	10 / 120
	11151	150.00 x 25.00	138.57 x 23.30	148.00	35.00	-	-	+	10 / 120
	20035	35.00 x 10.00	35.00 x 9.60	9.40	3.00	+	+	+	10 / 500
	20060	60.00 x 15.00	52.80 x 12.80	21.50	5.00	+	+	+	10 / 500
	20100	90.00 x 20.00	86.26 x 17.70	57.50	12.50	-	+	+	10 / 200
	20101	90.00 x 20.00	87.48 x 16.40	57.50	12.50	+	+	+	10 / 200
	20150	150.00 x 25.00	138.57 x 23.30	148.00	35.00	-	+	+	10 / 120
	20151	150.00 x 20.00	138.57 x 15.40	148.00	35.00	-	+	+	10 / 120

For surface coated Cell Culture Dishes (SPLCoat™- Collagen type I & IV, Poly-D-Lysine, Laminin, Fibronectin, Matrix™) → (21 - 26p)



Cell Cultureware

Cell Cultureware

Cell Culture Plate

Cell Culture Plates are widely used for handling multiple samples in a single experiment during culture. SPL Life Sciences provides a wide range of multiwell plates from 6well to 384well plates for cell culturing purposes.

- Designed to prevent cross contamination
- Effective gas exchange lid inner design
- Alphanumeric labeling
- Homogeneous cell culture
- 2 bottom types for 96well plates: Flat / Round
- HTS (High-Throughput Screening) compatible for 96well and 384well plates
- Compliant with USP guideline (USP class VI tested)
- Compliant with ANSI guideline
- Non-pyrogenic
- Non-cytotoxic
- DNase / RNase-free
- Human DNA-free

Cell Culture Plate 6well

Type	Cat. No.	Material	External Dimensions w x l x h (mm)	Bottom Type	Well Dimensions d x h (mm)	Growth Area (cm ²)	Working Vol. (ml)	Surface Treatment	Sterile	Packaging
	30006	PS	85.40 x 127.60 x 20.20	Flat	35.00 x 17.50	9.60	3.00	+	+	1 / 50
	31006	PS	85.40 x 127.60 x 20.20	Flat	35.00 x 17.50	9.60	3.00	-	-	1 / 50
	32006	PS	85.40 x 127.60 x 20.20	Flat	35.00 x 17.50	9.60	3.00	-	+	1 / 50

Cell Culture Plate 12well

	30012	PS	85.40 x 127.60 x 20.20	Flat	21.90 x 17.50	3.80	2.00	+	+	1 / 50
	31012	PS	85.40 x 127.60 x 20.20	Flat	21.90 x 17.50	3.80	2.00	-	-	1 / 50
	32012	PS	85.40 x 127.60 x 20.20	Flat	21.90 x 17.50	3.80	2.00	-	+	1 / 50

Cell Culture Plate 24well

	30024	PS	85.40 x 127.60 x 20.20	Flat	15.50 x 17.50	1.90	1.00	+	+	1 / 50
	31024	PS	85.40 x 127.60 x 20.20	Flat	15.50 x 17.50	1.90	1.00	-	-	1 / 50
	32024	PS	85.40 x 127.60 x 20.20	Flat	15.50 x 17.50	1.90	1.00	-	+	1 / 50

Cell Culture Plate 48well

	30048	PS	85.40 x 127.60 x 20.20	Flat	9.75 x 17.50	0.75	0.50	+	+	1 / 50
	31048	PS	85.40 x 127.60 x 20.20	Flat	9.75 x 17.50	0.75	0.50	-	-	1 / 50
	32048	PS	85.40 x 127.60 x 20.20	Flat	9.75 x 17.50	0.75	0.50	-	+	1 / 50

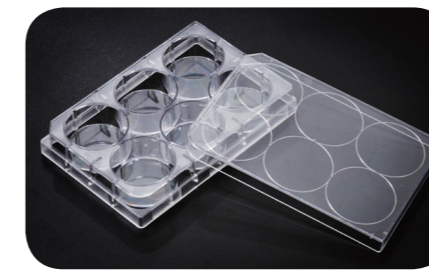
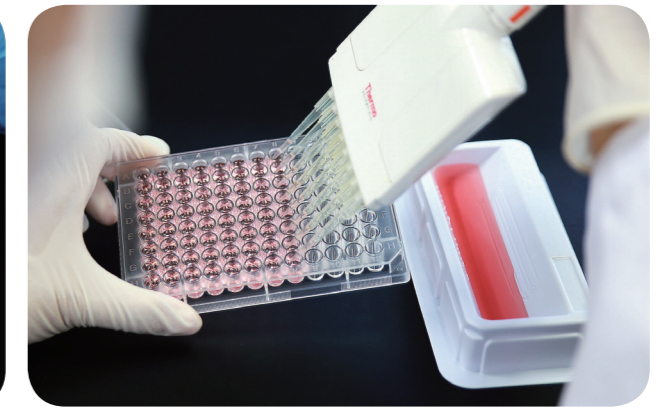
Cell Culture Plate 96well

	30096	PS	85.40 x 127.60 x 14.40	Flat	6.50 x 10.80	0.33	0.20	+	+	1 / 50
	31096	PS	85.40 x 127.60 x 14.40	Flat	6.50 x 10.80	0.33	0.20	-	-	10 / 100
	32096	PS	85.40 x 127.60 x 14.40	Flat	6.50 x 10.80	0.33	0.20	-	+	1 / 50
	34096	PS	85.40 x 127.60 x 14.40	Round	6.92 x 12.00	0.66	0.20	+	+	1 / 50
	34196	PS	85.40 x 127.60 x 14.40	Round	6.92 x 12.00	0.66	0.20	-	-	10 / 100
	34296	PS	85.40 x 127.60 x 14.40	Round	6.92 x 12.00	0.66	0.20	-	+	1 / 50

Cell Culture Plate 384well

	37384	PS	85.40 x 127.60 x 14.40	Flat	3.00 x 11.50	0.07	0.10	+	+	10 / 40
	38384	PS	85.40 x 127.60 x 14.40	Flat	3.00 x 11.50	0.07	0.10	-	+	10 / 40

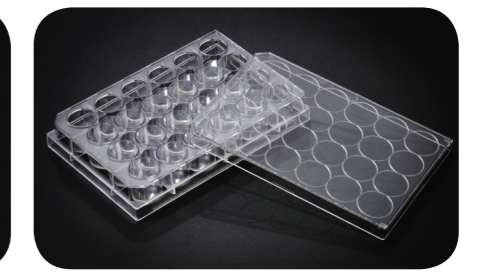
For surface coated Cell Culture Plates (SPLCoat™ - Collagen type I & IV, Poly-D-Lysine, Laminin, Fibronectin, Matrix™) → (21 - 26p)



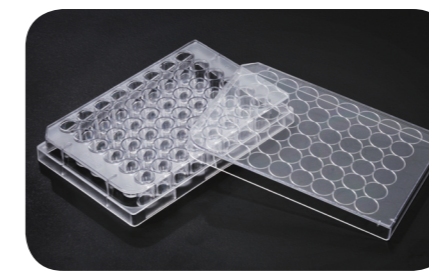
6well



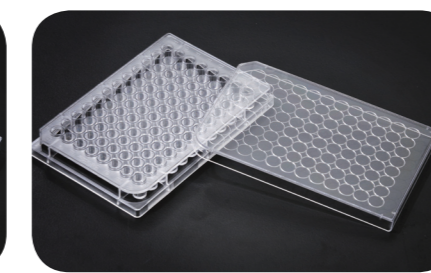
12well



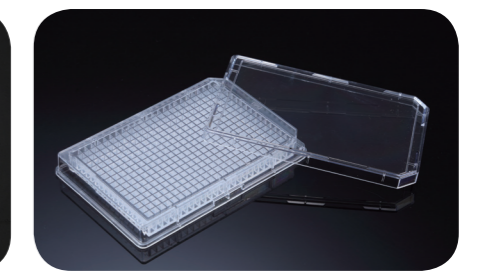
24well



48well



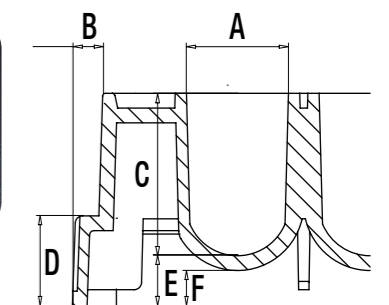
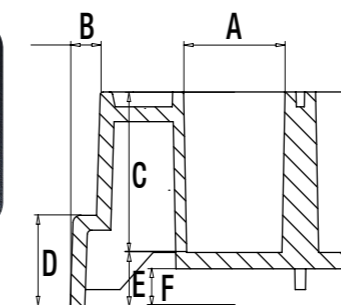
96well



384well

Flat Type(F-Type)

Round Type(U-Type)



Type	A	B	C	D	E	F
F-Type	Ø6.92	2.06	10.8	6.1	3.6	2.5
U-Type	Ø6.92	2.06	11	6.1	3.1	2.4

Black & White Plate

Black Plates are designed for minimum light scattering and cross-talk during fluorescence assay. White plates provide maximum reflection and minimum cross-talk for luminescence assay.

- HTS (High-Throughput Screening) compatible
- Suitable for fluorescence and luminescence assay
- Non-treated for suspension culture (Cat. No. 30396, 30496)
- Designed to prevent cross contamination
- Effective gas exchange lid inner design
- Alphanumeric labeling
- Homogeneous cell culture
- Flat bottom
- Compliant with USP guideline (USP class VI tested)
- Compliant with ANSI guideline



- Non-pyrogenic
- Non-cytotoxic
- DNase / RNase-free
- Human DNA-free

Black & White Plate 96well

Type	Cat. No.	Material	Color	External Dimensions w x l x h (mm)	Well Dimensions d x h (mm)	Growth Area (cm ²)	Working Vol. (ml)	Surface Treatment	Sterile	Packaging
	30196	PS	White	85.40 x 127.60 x 14.40	6.50 x 10.80	0.33	0.20	+	+	1 / 50
	30296	PS	Black	85.40 x 127.60 x 14.40	6.50 x 10.80	0.33	0.20	+	+	1 / 50
	30396	PS	White	85.40 x 127.60 x 14.40	6.50 x 10.80	0.33	0.20	-	-	1 / 50
	30496	PS	Black	85.40 x 127.60 x 14.40	6.50 x 10.80	0.33	0.20	-	-	1 / 50

Miniwell Tray

Miniwell Tray are used in a broad spectrum of applications, including cloning experiments, sample incubations, and in tissue culture based analytical systems. Miniwell Trays are designed with excellent cell adhesion and stackable design, which takes up minimal space in the freezer and incubator.

- Terasaki format plate
- Stackable
- Used in serotyping, micro-cytotoxicity and cell cloning studies
- Virgin, high clarity polystyrene (Excellent optical)
- Surface treatment and Sterilized (Cat. No. 30060, 30072)



- Non-pyrogenic
- Non-cytotoxic
- DNase / RNase-free
- Human DNA-free

Miniwell Tray

Type	Cat. No.	Well Type	Material	External Dimension d x h (mm)	Working vol. (μL)	Surface Treatment	Sterile	Packaging
	30060	60	PS	83.00 x 58.00	10.00	+	+	10 / 100
	31060	60	PS	83.00 x 58.00	10.00	-	-	10 / 100
	30072	72	PS	83.00 x 58.00	10.00	+	+	10 / 100
	31072	72	PS	83.00 x 58.00	10.00	-	-	10 / 100

Square Dish

Square Dishes for cell culture provide gridded surface area for confirming cell location, and are ideal for cell counting.

- Large culture area compared to conventional round cell culture dishes
- Available with grids for counting or confirmation of location
- Optically clear and flat surface for microscopy
- Effective gas exchange lid inner design
- Excellent stackability



- Non-pyrogenic
- Non-cytotoxic
- DNase / RNase-free
- Human DNA-free

Square Dish

Type	Cat. No.	Material	External Dimensions w x l x h (mm)	Well Dimensions w x l x h (mm)	Growth Area (cm ²)	Surface Treatment	Sterile	Packaging
	10125	PS	126.40 x 126.40 x 20.00	118.70 x 118.70 x 11.60	139.00	+	+	5 / 60

Tray Plate

SPL's Tray Plates provide a larger surface area and easy handling compared to those of conventional round type dishes.

The external dimensions of Tray Plates are identical to those of standard SPL Cell Culture Plates for broader applications.



- Optically clear & flat for microscopy
- Effective gas exchange lid inner design

- Non-pyrogenic
- Non-cytotoxic
- DNase / RNase-free
- Human DNA-free

Tray Plate

Type	Cat. No.	Material	External Dimensions w x l x h (mm)	Well Dimensions w x l x h (mm)	Growth Area (cm ²)	Surface Treatment	Sterile	Packaging
	30001	PS	127.94 x 85.50 x 16.25	105.47 x 69.46 x 11.60	73.26	+	+	1 / 50

Roller Bottle

SPL Life Sciences provides Roller Bottles for scale-up culture of cells. Cylindrical vessel structure of the Roller Bottles, combined with constant rotating culture procedure, provides a very economical means for cultivating large numbers of cells with using minimal amount of necessary reagents and labor.

- Prevention of gradient formation through gentle agitation / rotation
- Superior gas exchanging environment for anchorage dependent cells
- Optically clear for microscopy
- Surface treated bottles for anchorage-dependent cell culture (Cat. No. 55085, 55285)
- Non-treated bottles for suspension cell culture (Cat. No. 55185, 55385)



- Non-pyrogenic
- Non-cytotoxic
- DNase / RNase-free
- Human DNA-free

Roller Bottle

Type	Cat. No.	Material (Body / Cap)	Cap Type	Surface Type	Growth Area (cm ²)	Surface Treatment	Sterile	Packaging
	55085	PS / HDPE	Plug	Smooth	850.00	+	+	2 / 40
	55185	PS / HDPE	Plug	Smooth	850.00	-	+	2 / 40
	55285	PS / HDPE	Filter	Smooth	850.00	+	+	2 / 40
	55385	PS / HDPE	Filter	Smooth	850.00	-	+	2 / 40

Erlenmeyer Flask

SPL Life Sciences provides Erlenmeyer Flasks, suitable for animal cell and microbial suspension culture. The flask is designed to allow efficient suspension culture, provided in four different volumes, and are all sterilized before the release.

- Suitable for suspension cultures (animal cells, bacteria, fungi, plant callus, etc.)
- Require shaking apparatus (optimization of cell seeding density and working volume is recommended, depending on the type of cell)
- Plugs & filter caps are available for all flask types
- Non-treated
- Durable & transparent polycarbonate
- Autoclavable
- Non-pyrogenic
- Non-cytotoxic
- DNase / RNase-free
- Human DNA-free



Plug Cap



Filter Cap

Erlenmeyer Flask						
Type	Cat. No.	Material (Body / Cap)	Cap Type	Total Vol. (ml)	Sterile	Packaging
	73250	PC / PP	Plug	250.00	+	1 / 8
	74250	PC / PP	Filter	250.00	+	1 / 8
	73500	PC / PP	Plug	500.00	+	1 / 8
	74500	PC / PP	Filter	500.00	+	1 / 8
	73000	PC / PP	Plug	1,000.00	+	1 / 4
	74000	PC / PP	Filter	1,000.00	+	1 / 4
	73002	PC / PP	Plug	2,000.00	+	1 / 6
	74002	PC / PP	Filter	2,000.00	+	1 / 6

Cell Culture Square Bottle

SPL Life Sciences provides Cell Culture Square Bottles, suitable for animal cell and microbial suspension culture. The shape of the bottle is specially designed to cause turbulent flow of media when physically swirled for more effective solution mixing and oxygen supply. The square bottles are provided in four different volumes, which are all sterilized before the release.

- Suitable for suspension cultures (animal cells, bacteria, fungi, plant callus, etc.)
- Require shaking apparatus (optimization of cell seeding density and working volume is recommended, depending on the type of cell)
- The square-shaped bottle is intended to cause turbulent flow like baffled Erlenmeyer Flask
- Plugs & filter caps are available for all bottle types
- Non-treated
- Transparent PET
- Non-autoclavable
- Non-pyrogenic
- Non-cytotoxic
- DNase / RNase-free
- Human DNA-free

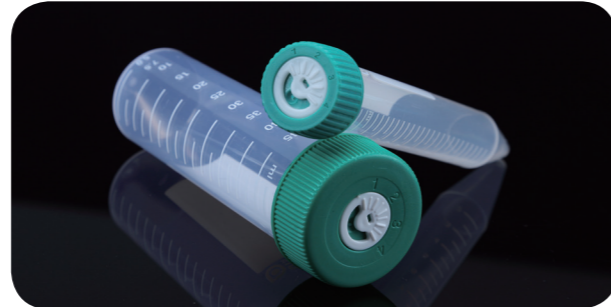


Cell Culture Square Bottle						
Type	Cat. No.	Material (Bottle / Cap)	Cap Type	Total Vol. (ml)	Sterile	Packaging
	51125	PET / HDPE	Plug	125.00	+	1 / 36
	51126	PET / HDPE	Filter	125.00	+	1 / 36
	51250	PET / HDPE	Plug	250.00	+	1 / 30
	51251	PET / HDPE	Filter	250.00	+	1 / 30
	51500	PET / HDPE	Plug	500.00	+	1 / 15
	51501	PET / HDPE	Filter	500.00	+	1 / 15
	51000	PET / HDPE	Plug	1,000.00	+	1 / 8
	51001	PET / HDPE	Filter	1,000.00	+	1 / 8

Bioreactor

SPL Bioreactors are designed mammalian cells and microorganism under suspension condition. Tubes are sterilized after complete packaging to eliminate contamination. The air circulation within the reactor can be controlled by the dial on the center of the reactor cap, providing 4 levels of ventilation.

- Four different levels of ventilation (dial type) on the cap
- 0.2 µm PTFE filter membrane
- Suitable for suspension culture
- Non-pyrogenic
- Non-cytotoxic
- DNase / RNase-free
- Human DNA-free



Bioreactor

Type	Cat. No.	Material (Tube / Cap / Filter / Dial)	Cap Type	Total Vol. (ml)	Surface Treatment	Sterile	Packaging
	51315	PP / HDPE / PTFE / PS	Filter	15.00	-	+	3 / 90
	50351	PP / HDPE / PTFE / PS	Filter	50.00	-	+	3 / 90

1-2. SPLCoat™

Interactions of cells with surrounding extracellular environment actively regulate cellular functions, including adhesion, migration, differentiation, proliferation, invasion and survival. Extracellular matrix (ECM) proteins, such as collagen and laminin are readily used to promote cellular adhesion growth in *in vitro* cell-based applications.

SPL Life Sciences offers a wide range of ECM protein-coated products to meet individual needs. No washing is required before use and all products are optically clear for microscopy.

Collagen Type I : the most abundant protein in human body in forms of collagen fibers, induces stronger cell binding to the surface

Poly-D-Lysine (PDL) : a synthetic form of polymeric amino acid, induces stronger cell binding

Laminin : a major protein in basal lamina that is frequently used for stem cell cultures playing critical roles in cell differentiation and migration

Collagen Type IV : a type of collagen found primarily in the basal lamina that is a layer of extracellular matrix secreted by the epithelial cells

Fibronectin : a high molecular glycoprotein found abundantly in blood and connective tissues

Matrix™ : a major protein in Engbreth-Holm-Swarm (EHS) mouse tumor cells that is frequently used for stem cell culture playing critical roles in cell differentiation, angiogenesis and tumorigenesis models



	SPLCoat™ Materials					
	Collagen Type I	PDL	Laminin	Collagen Type IV	Fibronectin	Matrix™
Cell Culture Flask	•	•	•	•	•	•
Cell Culture Dish	•	•	•	•	•	•
Cell Culture Plate	•	•	•	•	•	•
Cell Culture Slide	•	•	•	•	•	•

Collagen Type I Coated Ware

SPL Life Sciences provides a wide range of high-quality Collagen Type I coated products. All Collagen Type I coated products are produced with optically clear and high quality polymers for microscopy.



- Source: Rat Tail Tendon
- No washing required before use
- Shelf life: 6 months at room temperature

Flask

Type	Cat. No.	Material (Body / Cap)	Cap Type	Growth Area (cm ²)	Working Vol. (ml)	Packaging
	75025	PS / HDPE	Filter	25.00	7.00	5 / 10
	75075	PS / HDPE	Filter	75.00	25.00	5 / 10
	75125	PS / HDPE	Plug	25.00	7.00	5 / 10
	75175	PS / HDPE	Plug	75.00	25.00	5 / 10

Dish

Type	Cat. No.	Material	Dish Style d x h (mm)	Internal Dimensions d x h (mm)	Growth Area (cm ²)	Working Vol. (ml)	External Grip	Packaging
	21035	PS	35.00 x 10.00	35.00 x 9.60	9.40	3.00	+	5 / 20
	21060	PS	60.00 x 15.00	52.80 x 12.80	21.50	5.00	+	5 / 20
	21100	PS	90.00 x 20.00	86.26 x 17.70	57.50	12.50	-	5 / 10
	21150	PS	150.00 x 25.00	140.20 x 23.30	148.00	35.00	-	5 / 5

Plate

Type	Cat. No.	Material	Plate Type	External Dimensions w x l x h (mm)	Well Dimensions d x h (mm)	Growth Area (cm ²)	Working Vol. (ml)	Packaging
	39006	PS	6well	85.40 x 127.60 x 20.20	35.00 x 17.50	9.60	3.00	1 / 5
	39012	PS	12well	85.40 x 127.60 x 20.20	21.90 x 17.50	3.80	2.00	1 / 5
	39024	PS	24well	85.40 x 127.60 x 20.20	15.50 x 17.50	1.90	1.00	1 / 5
	39048	PS	48well	85.40 x 127.60 x 20.20	9.75 x 17.50	0.75	0.50	1 / 5
	39096	PS	96well	85.40 x 127.60 x 14.40	6.50 x 10.80	0.33	0.20	1 / 5

Slide

Type	Cat. No.	Material (Chamber / Slide / Holder)	Chamber Color	Growth Area (cm ²)	Working Vol. (ml)	Packaging
	30204	PS / Glass / PP	Clear	2.13	0.50 – 1.30	6 / 12
	30208	PS / Glass / PP	Clear	0.98	0.20 – 0.60	6 / 12

Poly-D-Lysine Coated Ware

SPL Life Sciences provides a wide range of high-quality Poly-D-Lysine coated products. All Poly-D-Lysine coated products are produced with optically clear and high quality polymers for microscopy.

- Source: Synthetic
- No washing required before use
- Shelf life: 6 months at room temperature



Flask						
Type	Cat. No.	Material (Body / Cap)	Cap Type	Growth Area (cm ²)	Working Vol. (ml)	Packaging
	76025	PS / HDPE	Filter	25.00	7.00	5 / 10
	76075	PS / HDPE	Filter	75.00	25.00	5 / 10
	76125	PS / HDPE	Plug	25.00	7.00	5 / 10
	76175	PS / HDPE	Plug	75.00	25.00	5 / 10

Dish								
Type	Cat. No.	Material	Dish Style d x h (mm)	Internal Dimensions d x h (mm)	Growth Area (cm ²)	Working Vol. (ml)	External Grip	Packaging
	22035	PS	35.00 x 10.00	35.00 x 9.60	9.40	3.00	+	5 / 20
	22060	PS	60.00 x 15.00	52.80 x 12.80	21.50	5.00	+	5 / 20
	22100	PS	90.00 x 20.00	86.26 x 17.70	57.50	12.50	-	5 / 10
	22150	PS	150.00 x 25.00	140.20 x 23.30	148.00	35.00	-	5 / 5

Plate								
Type	Cat. No.	Material	Plate Type	External Dimensions w x l x h (mm)	Well Dimensions d x h (mm)	Growth Area (cm ²)	Working Vol. (ml)	Packaging
	39206	PS	6well	85.40 x 127.60 x 20.20	35.00 x 17.50	9.60	3.00	1 / 5
	39212	PS	12well	85.40 x 127.60 x 20.20	21.90 x 17.50	3.80	2.00	1 / 5
	39224	PS	24well	85.40 x 127.60 x 20.20	15.50 x 17.50	1.90	1.00	1 / 5
	39248	PS	48well	85.40 x 127.60 x 20.20	9.75 x 17.50	0.75	0.50	1 / 5
	39296	PS	96well	85.40 x 127.60 x 14.40	6.50 x 10.80	0.33	0.20	1 / 5

Slide						
Type	Cat. No.	Material (Chamber / Slide / Holder)	Chamber Color	Growth Area (cm ²)	Working Vol. (ml)	Packaging
	30304	PS / Glass / PP	Clear	2.13	0.50 – 1.30	6 / 12
	30308	PS / Glass / PP	Clear	0.98	0.20 – 0.60	6 / 12

Laminin Coated Ware

SPL Life Sciences provides a wide range of high-quality Laminin coated products. All Laminin coated products are produced with optically clear and high quality polymers for microscopy.

- Source: Engelbreth-Holm-Swarm mouse tumor
- No washing required before use
- Shelf life: 3 months at refrigerated



Flask						
Type	Cat. No.	Material (Body / Cap)	Cap Type	Growth Area (cm ²)	Working Vol. (ml)	Packaging
	77125	PS / HDPE	Plug	25.00	7.00	5 / 10
	77175	PS / HDPE	Plug	75.00	25.00	5 / 10

Dish								
Type	Cat. No.	Material	Dish Style d x h (mm)	Internal Dimensions d x h (mm)	Growth Area (cm ²)	Working Vol. (ml)	External Grip	Packaging
	23035	PS	35.00 x 10.00	35.00 x 9.60	9.40	3.00	+	5 / 20
	23060	PS	60.00 x 15.00	52.80 x 12.80	21.50	5.00	+	5 / 20
	23100	PS	90.00 x 20.00	86.26 x 17.70	57.50	12.50	-	5 / 10
	23150	PS	150.00 x 25.00	140.20 x 23.30	148.00	35.00	-	5 / 5

Plate								
Type	Cat. No.	Material	Plate Type	External Dimensions w x l x h (mm)	Well Dimensions d x h (mm)	Growth Area (cm ²)	Working Vol. (ml)	Packaging
	39306	PS	6well	85.40 x 127.60 x 20.20	35.00 x 17.50	9.60	3.00	1 / 5
	39312	PS	12well	85.40 x 127.60 x 20.20	21.90 x 17.50	3.80	2.00	1 / 5
	39324	PS	24well	85.40 x 127.60 x 20.20	15.50 x 17.50	1.90	1.00	1 / 5
	39348	PS	48well	85.40 x 127.60 x 20.20	9.75 x 17.50	0.75	0.50	1 / 5
	39396	PS	96well	85.40 x 127.60 x 14.40	6.50 x 10.80	0.33	0.20	1 / 5

Collagen Type IV Coated Ware

SPL Life Sciences provides a wide range of Collagen Type IV coated products with high quality. All Collagen Type IV coated products are produced with optically clear and high quality polymers for microscopy.

- Source: Engelbreth-Holm-Swarm (EHS) lathrytic mouse tumor
- No washing required before use
- Shelf life: 3 months at refrigerated



Flask						
Type	Cat. No.	Material (Body / Cap)	Cap Type	Growth Area (cm ²)	Working Vol. (ml)	Packaging
	78025	PS / HDPE	Filter	25.00	7.00	5 / 10
	78075	PS / HDPE	Filter	75.00	25.00	5 / 10
	78125	PS / HDPE	Plug	25.00	7.00	5 / 10
	78175	PS / HDPE	Plug	75.00	25.00	5 / 10

Dish								
Type	Cat. No.	Material	Dish Style d x h (mm)	Internal Dimensions d x h (mm)	Growth Area (cm ²)	Working Vol. (ml)	External Grip	Packaging
	24035	PS	35.00 x 10.00	35.00 x 9.60	9.40	3.00	+	5 / 20
	24060	PS	60.00 x 15.00	52.80 x 12.80	21.50	5.00	+	5 / 20
	24100	PS	90.00 x 20.00	86.26 x 17.70	57.50	12.50	-	5 / 10
	24150	PS	150.00 x 25.00	140.20 x 23.30	148.00	35.00	-	5 / 5

Plate									
Type	Cat. No.	Material	Plate Type	External Dimensions d x h (mm)	Well Dimensions d x h (mm)	Growth Area (cm ²)	Working Vol. (ml)	Packaging	
	39406	PS	6well	85.40 x 127.60 x 20.20	35.00 x 17.50	9.60	3.00	1 / 5	
	39412	PS	12well	85.40 x 127.60 x 20.20	21.90 x 17.50	3.80	2.00	1 / 5	
	39424	PS	24well	85.40 x 127.60 x 20.20	15.50 x 17.50	1.90	1.00	1 / 5	
	39448	PS	48well	85.40 x 127.60 x 20.20	9.75 x 17.50	0.75	0.50	1 / 5	
	39496	PS	96well	85.40 x 127.60 x 14.40	6.50 x 10.80	0.33	0.20	1 / 5	

Slide						
Type	Cat. No.	Material (Chamber / Slide / Holder)	Chamber Color	Growth Area (cm ²)	Working Vol. (ml)	Packaging
	30604	PS / Glass / PP	Clear	2.13	0.50 – 1.30	6 / 12
	30608	PS / Glass / PP	Clear	0.98	0.20 – 0.60	6 / 12

Fibronectin Coated Ware

SPL Life Sciences provides a wide range of high-quality Fibronectin coated products. All Fibronectin coated products are produced with optically clear and high quality polymers for microscopy.

- Source: Human plasma
- No washing required before use
- Shelf life: 3 months at refrigerated



Flask						
Type	Cat. No.	Material (Body / Cap)	Cap Type	Growth Area (cm ²)	Working Vol. (ml)	Packaging
	79025	PS / HDPE	Filter	25.00	7.00	5 / 10
	79075	PS / HDPE	Filter	75.00	25.00	5 / 10
	79125	PS / HDPE	Plug	25.00	7.00	5 / 10
	79175	PS / HDPE	Plug	75.00	25.00	5 / 10

Dish								
Type	Cat. No.	Material	Dish Style d x h (mm)	Internal Dimensions d x h (mm)	Growth Area (cm ²)	Working Vol. (ml)	External Grip	Packaging
	25035	PS	35.00 x 10.00	35.00 x 9.60	9.40	3.00	+	5 / 20
	25060	PS	60.00 x 15.00	52.80 x 12.80	21.50	5.00	+	5 / 20
	25100	PS	90.00 x 20.00	86.26 x 17.70	57.50	12.50	-	5 / 10
	25150	PS	150.00 x 25.00	140.20 x 23.30	148.00	35.00	-	5 / 5

Plate									
Type	Cat. No.	Material	Plate Type	External Dimensions w x l x h (mm)	Well Dimensions d x h (mm)	Growth Area (cm ²)	Working Vol. (ml)	Packaging	
	39506	PS	6well	85.40 x 127.60 x 20.20	35.00 x 17.50	9.60	3.00	1 / 5	
	39512	PS	12well	85.40 x 127.60 x 20.20	21.90 x 17.50	3.80	2.00	1 / 5	
	39524	PS	24well	85.40 x 127.60 x 20.20	15.50 x 17.50	1.90	1.00	1 / 5	
	39548	PS	48well	85.40 x 127.60 x 20.20	9.75 x 17.50	0.75	0.50	1 / 5	
	39596	PS	96well	85.40 x 127.60 x 14.40	6.50 x 10.80	0.33	0.20	1 / 5	

Slide						
Type	Cat. No.	Material (Chamber / Slide / Holder)	Chamber Color	Growth Area (cm ²)	Working Vol. (ml)	Packaging
	30704	PS / Glass / PP	Clear	2.13	0.50 – 1.30	6 / 12
	30708	PS / Glass / PP	Clear	0.98	0.20 – 0.60	6 / 12

Matrix™

SPL Life Sciences provides a wide range of high-quality Matrix™ coated products. All Matrix™ coated products are produced with optically clear and high quality polymers for microscopy.

- Source Engelbreth-Holm-Swarm (EHS) mouse tumor
- No washing required before use
- Shelf life: 3 months at refrigerated



Flask						
Type	Cat. No.	Material (Body / Cap)	Cap Type	Growth Area (cm ²)	Working Vol. (ml)	Packaging
	710025	PS / HDPE	Filter	25.00	7.00	5 / 10
	710075	PS / HDPE	Filter	75.00	25.00	5 / 10
	710125	PS / HDPE	Plug	25.00	7.00	5 / 10
	710175	PS / HDPE	Plug	75.00	25.00	5 / 10

Dish								
Type	Cat. No.	Material	Dish Style d x h (mm)	Internal Dimensions d x h (mm)	Growth Area (cm ²)	Working Vol. (ml)	External Grip	Packaging
	27035	PS	35.00 x 10.00	35.00 x 9.60	9.40	3.00	+	5 / 20
	27060	PS	60.00 x 15.00	52.80 x 12.80	21.50	5.00	+	5 / 20
	27100	PS	90.00 x 20.00	86.26 x 17.70	57.50	12.50	-	5 / 10
	27150	PS	150.00 x 25.00	140.20 x 23.30	148.00	35.00	-	5 / 5

Plate								
Type	Cat. No.	Material	Plate Type	External Dimensions d x h (mm)	Well Dimensions d x h (mm)	Growth Area (cm ²)	Working Vol. (ml)	Packaging
	39606	PS	6well	85.40 x 127.60 x 20.20	35.00 x 17.50	9.60	3.00	1 / 5
	39612	PS	12well	85.40 x 127.60 x 20.20	21.90 x 17.50	3.80	2.00	1 / 5
	39624	PS	24well	85.40 x 127.60 x 20.20	15.50 x 17.50	1.90	1.00	1 / 5
	39648	PS	48well	85.40 x 127.60 x 20.20	9.75 x 17.50	0.75	0.50	1 / 5
	39696	PS	96well	85.40 x 127.60 x 14.40	6.50 x 10.80	0.33	0.20	1 / 5

Slide						
Type	Cat. No.	Material (Chamber / Slide / Holder)	Chamber Color	Growth Area (cm ²)	Working Vol. (ml)	Packaging
	30804	PS / Glass / PP	Clear	2.13	0.50 – 1.30	6 / 12
	30808	PS / Glass / PP	Clear	0.98	0.20 – 0.60	6 / 12

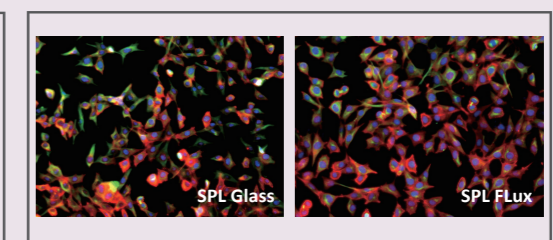
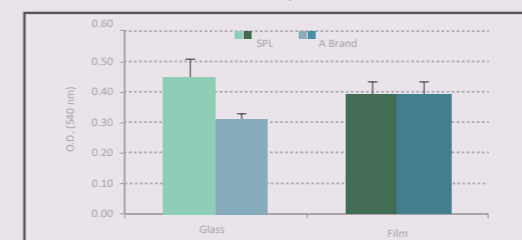
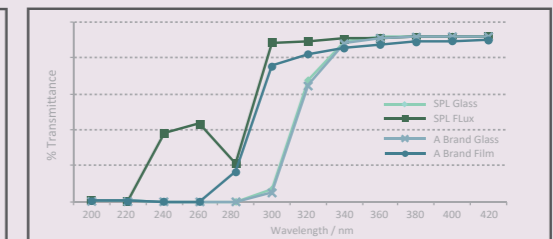
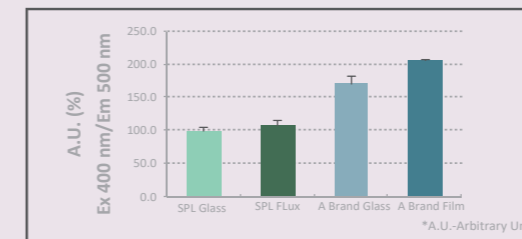
1-3. Cellular Imaging

SPL Cellular Imaging products are designed to maximize convenience for a broad range of applications, including confocal microscopy, fluorescence microscopy, live cell imaging, and fluorescence-based analysis.

- Efficient light transmission and minimal auto-fluorescence to achieve the most accurate results
- Black colored products are designed to prevent well-to-well light interference for reliable results
- Various bottom types are available for a wide range of applications

	Surfaces			Materials			
	Cell Culture-Treated	Non-Treated	SPLCoat™	Glass	DLux	FLux	PS
Black Plate	•	•	•	•	•	•	•
Cell Culture Slide	•	•	•	•	•	•	•
Cell Culture Slide Hybridwell™	•	•	•	•	•	•	•
Confocal Dish & Plate	•	•	•	•	•	•	•

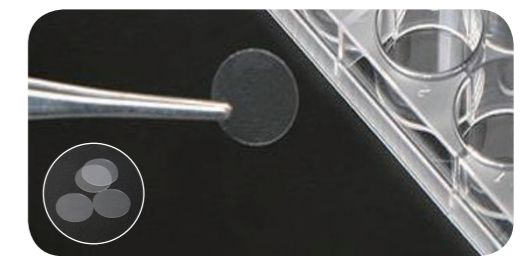
Detailed information on DLux & FLux – Light Transmission, Autofluorescence, Confocal Images



Coverslip

The material used for SPL Coverslips is FLux film, that exhibits superior cell attachment with optimal thickness for high resolution microscopy.

- Resistant to breakage and various solvents
- Suitable for specimen preparation under optical microscopy
- Non-autoclavable
- Non-pyrogenic
- Non-cytotoxic
- DNase / RNase-free
- Human DNA-free



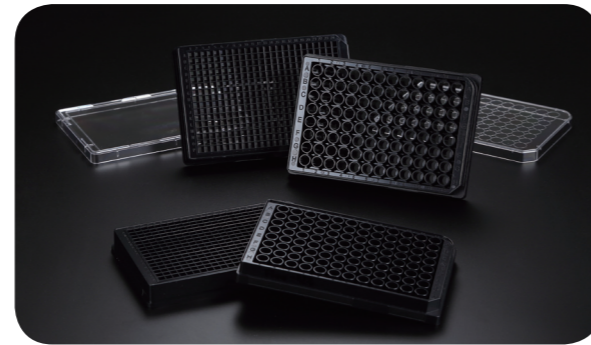
Coverslip						
Type	Cat. No.	Material	Fits into	Dimensions (mm)	Sterile	Packaging
○	20009	FLux	48well	9.00	+	100 / 200
○	20012	FLux	24well	12.00	+	100 / 200
○	20018	FLux	12well	18.00	+	50 / 200
○	20025	FLux	6well	25.00	+	50 / 200

Black Plate

SPL Black Plate has low auto-fluorescence with efficient light blocking ability to obtain the most accurate result in fluorescence experiments. Moreover, microscopic observation can be done simultaneously with fluorescence experiment due to its highly transparent bottom.

- Black wall / Clear bottom
- Bottom materials: Glass / FLux / PS
- Designed to prevent cross contamination
- Effective gas exchange lid inner design
- Alphanumeric labeling
- Individual packaging in plastic tray (Cat. No. 33196, 33296)

- Non-pyrogenic
- Non-cytotoxic
- DNase / RNase-free
- Human DNA-free



96well

Type	Cat. No.	Material (Plate/Bottom)	Bottom Type	External Dimensions w x l x h (mm)	Well Dimensions d x h (mm)	Growth Area (cm ²)	Total Vol. (ml)	Working Vol. (ml)	Surface Treatment	Sterile	Packaging
	33196	PS / Glass	Flat	85.40 x 127.60 x 14.40	6.50 x 10.80	0.33	0.30	0.20	-	+	1 / 20
	33296	PS / FLux	Flat	85.40 x 127.60 x 14.40	6.50 x 10.80	0.33	0.30	0.20	+	+	1 / 20
	33396	PS / PS	Flat	85.40 x 127.60 x 14.40	6.50 x 10.80	0.33	0.30	0.20	+	+	5 / 25

384well

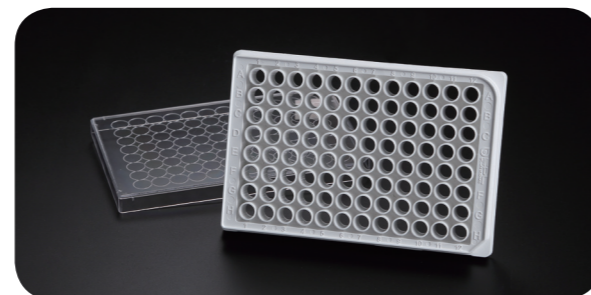
Type	Cat. No.	Material (Plate/Bottom)	Bottom Type	External Dimensions w x l x h (mm)	Well Dimensions d x h (mm)	Growth Area (cm ²)	Working Vol. (ml)	Surface Treatment	Sterile	Packaging
	332384	PS / FLux	Flat	85.40 x 127.60 x 14.40	3.00 x 11.50	0.07	0.10	+	+	1 / 10
	333384	PS / PS	Flat	85.40 x 127.60 x 14.40	3.00 x 11.50	0.07	0.10	+	+	1 / 10

White Plate

SPL White Plate is suitable for obtaining amplified signals in a luminescence assay with high reflections and minimized cross-talk. In addition, the highly transparent bottom provides an optimal environment for microscopic observation at once.

- White wall / Clear bottom
- Bottom materials: Glass / FLux / PS
- Designed to prevent cross contamination
- Effective gas exchange lid inner design
- Alphanumeric labeling
- Individual packaging in plastic tray (Cat. No. 33496, 33596)

- Non-pyrogenic
- Non-cytotoxic
- DNase / RNase-free
- Human DNA-free



White Plate

Type	Cat. No.	Material (Plate/Bottom)	Bottom Type	External Dimensions w x l x h (mm)	Well Dimensions d x h (mm)	Growth Area (cm ²)	Total Vol. (ml)	Working Vol. (ml)	Surface Treatment	Sterile	Packaging
	33496	PS / Glass	Flat	85.40 x 127.60 x 14.40	6.50 x 10.80	0.33	0.30	0.20	-	+	1 / 10
	33596	PS / FLux	Flat	85.40 x 127.60 x 14.40	6.50 x 10.80	0.33	0.30	0.20	+	+	1 / 10
	33696	PS / PS	Flat	85.40 x 127.60 x 14.40	6.50 x 10.80	0.33	0.30	0.20	+	+	5 / 25

Cell Culture Slide I

SPL's Cell Culture Slides are designed for various cell-based experiments, including but not limited to virus and toxicity tests and immunocytological experiments. Cell Culture Slides provide removable chamber that enables cell growth directly on the microscopic slide, convenient for staining and microscopic examination without cell transfer. Chambers with various well numbers and colors are available for different applications. With new additions of novel culture surfaces (i.e. DLux & FLux), the Cell Culture Slides have been diversified with improved efficacy.

- Convenient for microscopic observation
- Bottom materials: Glass / DLux / FLux (no surface treatment for glass bottom)
- Chamber color: Clear / White / Black
- Easy open flip for chamber & slide disassembly
- No chemical adhesives used
- Designed to prevent cross contamination
- Alphanumeric labeling
- Packing trays can be used as incubation racks in CO₂ incubators

- Non-pyrogenic
- Non-cytotoxic
- DNase / RNase-free
- Human DNA-free



1well

Type	Cat. No.	Material (Chamber / Slide / Holder)	Chamber Color	Growth Area / Well (cm ²)	Working Vol. / Well (ml)	Surface Treatment	Sterile	Packaging
	30101	PS / Glass / PP	Clear	9.40	2.50 - 5.50	-	+	6 / 12
	30111	PS / Glass / PP	Black	9.40	2.50 - 5.50	-	+	6 / 12
	30121	PS / Glass / PP	White	9.40	2.50 - 5.50	-	+	6 / 12
	30401	PS / DLux / PP	Clear	9.40	2.50 - 5.50	+	+	6 / 12
	30501	PS / FLux / PP	Clear	9.40	2.50 - 5.50	+	+	6 / 12

2well

	30102	PS / Glass / PP	Clear	4.55	1.20 - 2.50	-	+	6 / 12
	30112	PS / Glass / PP	Black	4.55	1.20 - 2.50	-	+	6 / 12
	30122	PS / Glass / PP	White	4.55	1.20 - 2.50	-	+	6 / 12
	30402	PS / DLux / PP	Clear	4.55	1.20 - 2.50	+	+	6 / 12
	30502	PS / FLux / PP	Clear	4.55	1.20 - 2.50	+	+	6 / 12

4well

	30104	PS / Glass / PP	Clear	2.13	0.50 - 1.30	-	+	6 / 12
	30114	PS / Glass / PP	Black	2.13	0.50 - 1.30	-	+	6 / 12
	30124	PS / Glass / PP	White	2.13	0.50 - 1.30	-	+	6 / 12
	30404	PS / DLux / PP	Clear	2.13	0.50 - 1.30	+	+	6 / 12
	30504	PS / FLux / PP	Clear	2.13	0.50 - 1.30	+	+	6 / 12

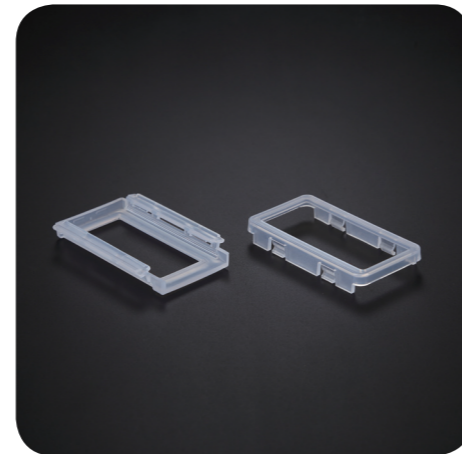
8well

	30108	PS / Glass / PP	Clear	0.98	0.20 - 0.60	-	+	6 / 12
	30118	PS / Glass / PP	Black	0.98	0.20 - 0.60	-	+	6 / 12
	30128	PS / Glass / PP	White	0.98	0.20 - 0.60	-	+	6 / 12
	30408	PS / DLux / PP	Clear	0.98	0.20 - 0.60	+	+	6 / 12
	30508	PS / FLux / PP	Clear	0.98	0.20 - 0.60	+	+	6 / 12

Cell Culture Slide II

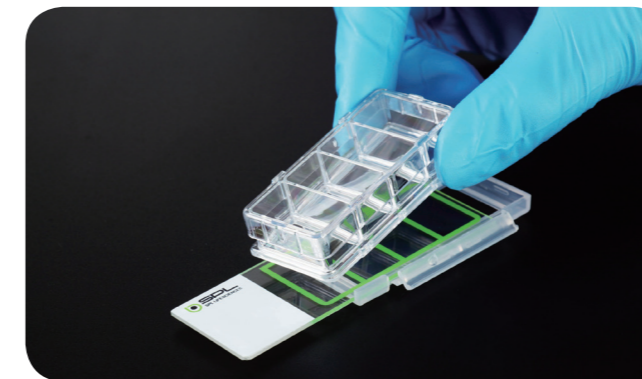


Cell Culture Slide II

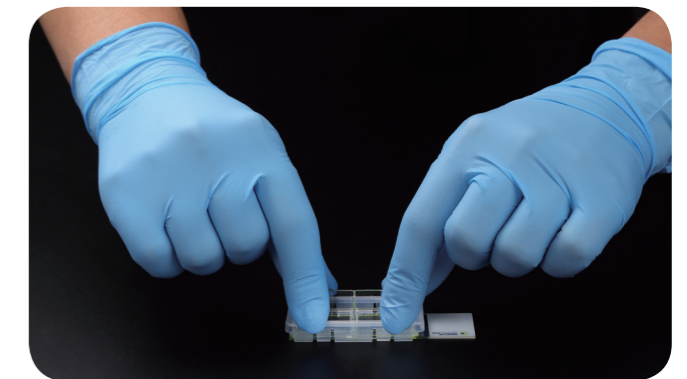


Cell Culture Slide I & II Holder

1well								
Type	Cat. No.	Material (Chamber / Slide / Holder)	Chamber Color	Growth Area / Well (cm ²)	Working Vol. / Well (ml)	Surface Treatment	Sterile	Packaging
	31101	PS / Glass / PP	Clear	9.40	2.50 – 5.50	-	+	6 / 12
	31111	PS / Glass / PP	Black	9.40	2.50 – 5.50	-	+	6 / 12
	31121	PS / Glass / PP	White	9.40	2.50 – 5.50	-	+	6 / 12
	31401	PS / DLux / PP	Clear	9.40	2.50 – 5.50	+	+	6 / 12
	31501	PS / FLux / PP	Clear	9.40	2.50 – 5.50	+	+	6 / 12
2well								
	31102	PS / Glass / PP	Clear	4.55	1.20 – 2.50	-	+	6 / 12
	31112	PS / Glass / PP	Black	4.55	1.20 – 2.50	-	+	6 / 12
	31122	PS / Glass / PP	White	4.55	1.20 – 2.50	-	+	6 / 12
	31402	PS / DLux / PP	Clear	4.55	1.20 – 2.50	+	+	6 / 12
	31502	PS / FLux / PP	Clear	4.55	1.20 – 2.50	+	+	6 / 12
4well								
	31104	PS / Glass / PP	Clear	2.13	0.50 – 1.30	-	+	6 / 12
	31114	PS / Glass / PP	Black	2.13	0.50 – 1.30	-	+	6 / 12
	31124	PS / Glass / PP	White	2.13	0.50 – 1.30	-	+	6 / 12
	31404	PS / DLux / PP	Clear	2.13	0.50 – 1.30	+	+	6 / 12
	31504	PS / FLux / PP	Clear	2.13	0.50 – 1.30	+	+	6 / 12
8well								
	31108	PS / Glass / PP	Clear	0.98	0.20 – 0.60	-	+	6 / 12
	31118	PS / Glass / PP	Black	0.98	0.20 – 0.60	-	+	6 / 12
	31128	PS / Glass / PP	White	0.98	0.20 – 0.60	-	+	6 / 12
	31408	PS / DLux / PP	Clear	0.98	0.20 – 0.60	+	+	6 / 12
	31508	PS / FLux / PP	Clear	0.98	0.20 – 0.60	+	+	6 / 12



Cell Culture Slide I: Lean back both sides tabs and then chamber and holder will be removed from slide.



Cell Culture Slide II: Press chamber from top to bottom, then lean back and remove holder and chamber.

Cell Culture Slide Hybridwell™

Cell Culture Slide Hybridwell™ is a combination of conventional cell culture flask and single well slide, providing better and safer handling of samples.

- Convenient for microscopic observation
- Bottom materials: Glass / DLux / FLux (no surface treatment for glass bottom)
- Chamber color: Clear
- Easy open flip for chamber & slide disassembly
- No chemical adhesives used
- Packing trays can be used as incubation racks in CO₂ incubators
- Non-pyrogenic
- Non-cytotoxic
- DNase / RNase-free
- Human DNA-free



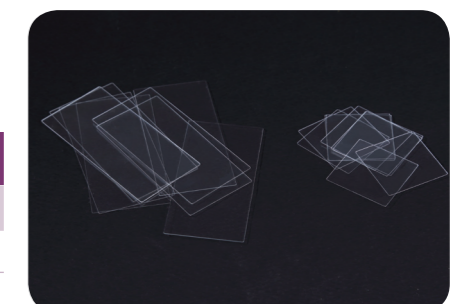
Cell Culture Slide Hybridwell™								
Type	Cat. No.	Material (Chamber / Slide / Holder)	Chamber Color	Growth Area (cm ²)	Working Vol. (ml)	Surface Treatment	Sterile	Packaging
	33101	PS / Glass / PP	Clear	9.00	2.50 - 5.50	-	+	6 / 12
	33201	PS / DLux / PP	Clear	9.00	2.50 - 5.50	+	+	6 / 12
	33301	PS / FLux / PP	Clear	9.00	2.50 - 5.50	+	+	6 / 12

Microscopy Coverslip

Microscopy Coverslip is suitable for microscopic observation, designed as a square or rectangle for convenience in experiments.

- Resistant to breakage and various solvents
- Suitable for cell straining, mounting, embedding
- Non-autoclavable
- Non-Cytotoxic
- Non-Pyrogenic
- DNase / RNase-free
- Human DNA-free

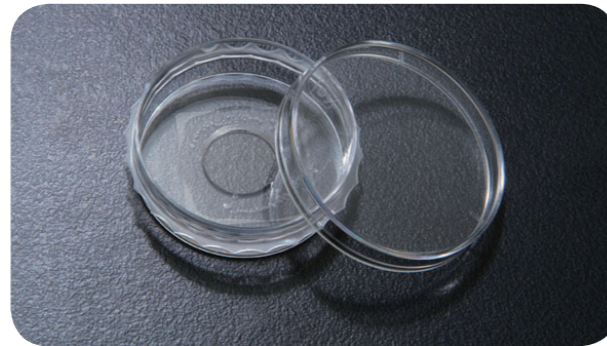
Microscopy Coverslip					
Type	Cat. No.	Material	Dimensions (mm)	Sterile	Packaging
	20022	FLux	22.00 x 22.00	-	50 / 200
	20052	FLux	52.00 x 25.00	-	50 / 200



Confocal Dish & Plate

SPL confocal products allow researchers to acquire high resolution microscopic images of cells in 35 mm culture dishes or 6well plates. Low auto-fluorescence glass and FLux, ideal for confocal microscopy, phase contrast microscopy, live cell imaging and micromanipulations, are used.

- Bottom materials: Glass / FLux
- Dish color: Clear / Black
- Dish size: 35 ϕ
- Plate size: 6well Plate (Cat. No. 30106, 30206, 230106, 230206)
- Hole size: 13 ϕ / 20 ϕ
- Insert Type: Cat. No. 100351
- Non-pyrogenic
- Non-cytotoxic
- DNase / RNase-free
- Human DNA-free

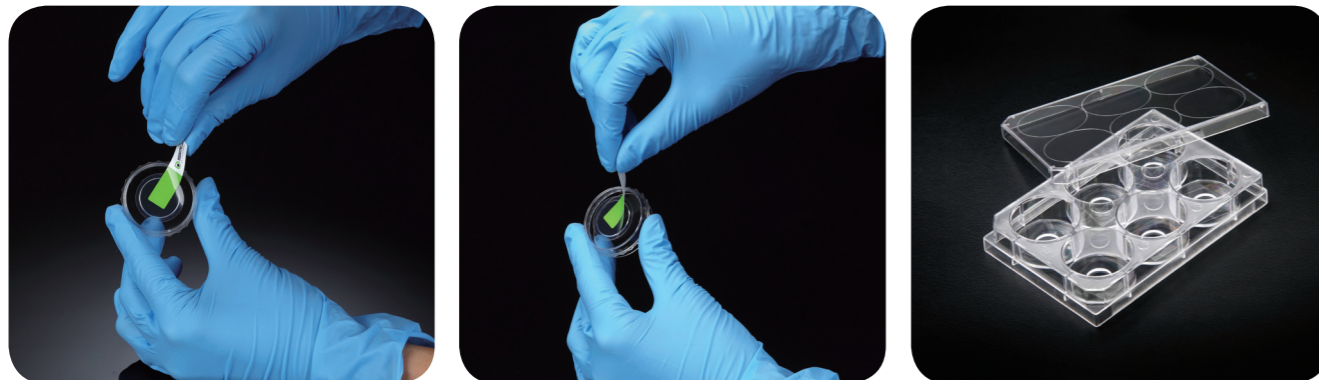


Confocal Dish

Type	Cat. No.	Material	Color	External Dimensions d x h (mm)	Internal Dimensions d x h (mm)	Hole	Confocal Region (cm ²)	Working Vol. (ml)	Surface Treatment	Sterile	Packaging
	100350	PS / Glass	Clear	35.00 x 10.00	34.30 x 9.30	13 ϕ	1.33	3.00	-	+	5 / 100
	100351	PS / Glass	Clear	35.00 x 10.00	34.30 x 9.30	-	-	3.00	-	+	10 / 500
	101350	PS / Glass	Clear	35.00 x 10.00	34.30 x 9.30	20 ϕ	3.14	3.00	-	+	5 / 100
	102350	PS / Glass	Black	35.00 x 10.00	34.30 x 9.30	13 ϕ	1.33	3.00	-	+	5 / 100
	103350	PS / Glass	Black	35.00 x 10.00	34.30 x 9.30	20 ϕ	3.14	3.00	-	+	5 / 100
	200350	PS / Glass	Clear	35.00 x 10.00	34.30 x 9.30	13 ϕ	1.33	3.00	+	+	5 / 50
	210350	PS / FLux	Clear	35.00 x 10.00	34.30 x 9.30	13 ϕ	1.33	3.00	+	+	5 / 50
	211350	PS / FLux	Clear	35.00 x 10.00	34.30 x 9.30	20 ϕ	3.14	3.00	+	+	5 / 50
	212350	PS / FLux	Black	35.00 x 10.00	34.30 x 9.30	13 ϕ	1.33	3.00	+	+	5 / 50
	213350	PS / FLux	Black	35.00 x 10.00	34.30 x 9.30	20 ϕ	3.14	3.00	+	+	5 / 50

Confocal Plate

	30106	PS / Glass	Clear	85.40 x 127.60	35.00 / well	13 ϕ	1.33	3.00	-	+	1 / 4
	30206	PS / Glass	Clear	85.40 x 127.60	35.00 / well	20 ϕ	3.14	3.00	-	+	1 / 4
	230106	PS / FLux	Clear	85.40 x 127.60	35.00 / well	13 ϕ	1.33	3.00	+	+	1 / 4
	230206	PS / FLux	Clear	85.40 x 127.60	35.00 / well	20 ϕ	3.14	3.00	+	+	1 / 4

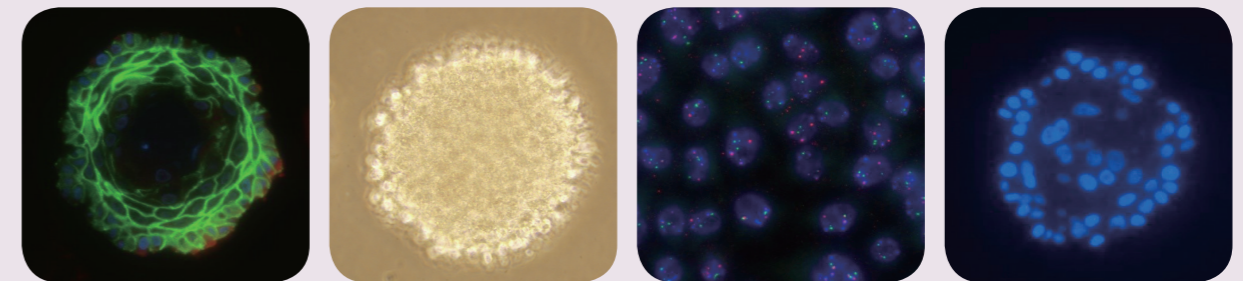


1-4. SPL3D™

Cells, cultured *in vitro* such as cell culture dish and flask, tend to show significantly different behaviors and reactions, compared to the *in vivo* culture. Therefore, *in vitro* studies most often do not fully correspond to the circumstances occurring around cells in a living organism, limiting deeper perception of cell biology. *In vivo* studies can be actualized through 3D cell culture, which is expected to resemble a closer biological environment.

- Spheroids improve the relevance of *in vitro* results.
- Spheroids serve as biological models of native tissues or engineered solutions.
- Spheroids are used as building blocks to form tissues.
- Spheroids in concert with other aggregated cell shapes allow for complex tissue architecture studies.

	Surfaces		Materials						
	Cell Culture-Treated	Non-Treated	PS	PP	PET	HDPE	PTFE	PC	NYLON
Cell Floater		•	•						
Spheroid Forming Unit		•		•	•	•	•		
Spheroid Dish			•						
96well Hanging Drop Plate			•						
Multi Insert Dish								•	•



Spheroid Dish

SPL Spheroid Dish is designed for easy culturing and counting the Spheroid. Meshes inside the well facilitate identifying and counting the spheroids. After experiment, the Spheroid can be easily collected.

- Mesh thickness: 137 μ m
- Mesh pore size: 200 μ m
- Non-treated for counting of spheroids (Cat. No. 110350)
- Low Binding treated for spheroid culturing (Cat. No. 111350)



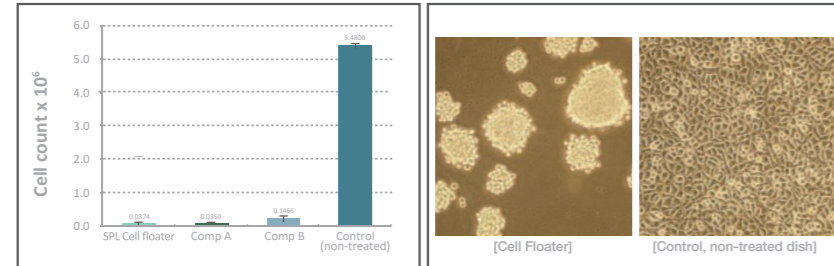
Spheroid Dish

Type	Cat. No.	Material (Dish / Mesh)	Dish Style d x h (mm)	Internal Dimensions d x h (mm)	Working Vol. (ml)	Low Binding Treatment	Sterile	Packaging
	110350	PS / PE	35.00 x 10.00	13.00 x 1.00	0.20	-	+	3 / 15
	111350	PS / PE	35.00 x 10.00	25.00 x 1.00	0.80	+	+	3 / 15

Cell Floater

SPL3D™ Cell Floater is a culture vessel that provides an optimized environment for 3D cell culture. The culture vessel, which is effective for the formation of spheroids of animal cells, does not require any special incubation techniques, and thus 3D cell culture can easily be implemented in the same way as conventional 2D culture.

Minimized cell attachment of SPL3D™ Cell Floater



SPL3D™ Cell Floater showed a minimized cell attachment performance similar to that of the competitors.



Cell Floater Dish

Type	Cat. No.	Material	Dish Style d x h (mm)	Internal Dimensions d x h (mm)	Growth Area (cm ²)	Working Vol. (ml)	External Grip	Packaging
	26035	PS	35.00 x 10.00	35.00 x 9.60	9.40	3.00	+	5 / 20
	26060	PS	60.00 x 15.00	52.80 x 12.80	21.50	5.00	+	5 / 20
	26100	PS	90.00 x 20.00	86.26 x 17.70	57.50	12.50	-	5 / 10

Cell Floater Plate

Type	Cat. No.	Material	Plate Type	External Dimensions w x l x h (mm)	Well Dimensions d x h (mm)	Growth Area (cm ²)	Working Vol. (ml)	Packaging
	39706	PS	6well	85.40 x 127.60 x 20.20	35.00 x 17.50	9.60	3.00	1 / 5
	39724	PS	24well	85.40 x 127.60 x 20.20	15.50 x 17.50	1.90	1.00	1 / 5
	39796	PS	96well Flat	85.40 x 127.60 x 14.40	6.50 x 10.80	0.33	0.20	1 / 5
	34896	PS	96well Round	85.40 x 127.60 x 14.40	6.50 x 11.00	0.66	0.20	1 / 5

Cell Floater Flask

Type	Cat. No.	Material	Cap Type	Growth Area (cm ²)	Working Vol. (ml)	Total Vol. (ml)	Packaging
	711025	PS	Filter	25.00	7.00	60.00	5 / 10
	711075	PS	Filter	75.00	25.00	250.00	1 / 3

Spheroid Forming Unit

Spheroid Forming Unit is designed to allow stationary culture and rotary incubation of cell sheets or aggregates to assist generation of cell spheroids along with hanging drop method.

- Material (Frame): Polypropylene (PP)
- Material (Mesh): Polyethylene terephthalate (PET)
- Nominal membrane thickness: 68 µm
- Pore size: 65 µm
- Rotary incubation possible



Spheroid Forming Unit

Type	Cat. No.	Material (Tube / Cap / Filter / Dial / Mesh)	External Dimension d x h (mm)	Total Vol. (ml)	Pore Size (µm)	Sterile	Packaging
	911604	PP / HDPE / PTFE / PP / PET	17.00 x 120.00	15.00	65.00	+	3 / 90

Spheroid Forming Gel

Spheroid Forming Gel effectively helps the development of spheroid and it is suitable for 3D culture. Spheroid Forming Gel has advantages, it is easy to use and collect the cells, and the cells are uniform in size.

- Material: Hyaluronic acid
- Swelling size: 280 µm
- Total weight: 1 g (0.2 g / tube)



Spheroid Forming Gel

Type	Cat. No.	Material	Swelling size	Sterile	Packaging
	99005	Hyaluronic acid	280 µm	+	5 tube / box

96well Hanging Drop Plate

SPL Life Sciences provides 96well Hanging Drop Plate, suitable for spheroid culture. The shape of the holes is designed to position droplets safely. This shape keeps the droplets of the hanging drop consistent and stable culturing conditions. The reservoir prevents evaporation of the media, allowing for long-term culture. The tube extending into the well plate facilitates collect of spheroids.

- Physiological and non-expensive spheroid culture system
- Suitable for high-throughput screening (HTS)
- Suitable for long-term culture
- Non-autoclavable

- Non-pyrogenic
- Non-cytotoxic
- DNase / RNase-free
- Human DNA-free



96well Hanging Drop Plate

Type	Cat. No.	Material	External Dimensions w x l (mm)	Hole Depth (mm)	Droplet Vol. (µl)	Plate Type	Sterile	Packaging
	331096	PS	123.60 x 81.40	9.00	30.00	w/o Plate	+	1 / 10
	331196	PS	123.60 x 81.40	9.00	30.00	96well Cell Culture	+	1 / 5
	331296	PS	123.60 x 81.40	9.00	30.00	96well Cell Floater (Flat)	+	1 / 5

Multi Insert Dish

Multi Insert Dish is designed to study the interactions between different cell populations in a single dish, provided with 3 or 5 small inserts to allow multi-directional signal exchange but not transmigration.

- Material (Frame / Mesh): Polystyrene (PS) / Nylon
- Nominal membrane thickness: 10 ~ 23 μm
- Pore size: 23 μm
- 5 Inserts (24well size) (Cat. No. 911605, 911606, 911607, 911615, 911617, 911625, 911627)
- 3 Inserts (6well size) (Cat. No. 911107, 911117)
- Non-treated (Cat. No. 911605, 911606, 911607)
- Surface treated for attachment of cells (Cat. No. 911615, 911617, 911117)
- Low binding treated for spheroid culturing (Cat. No. 911625, 911627)
- Side mesh (Cat. No. 911605, 911615, 911625, 911607, 911617, 911627, 911107, 911117) available for signal exchanges between inserts
- Bottom mesh (Cat. No. 911606) available for signal exchange between inserts and bottom
- Groove bottom for magnetic stirrer positioning (Cat. No. 911607, 911617, 911627, 911107, 911117)



Cat. No. 911605



Cat. No. 911606



Cat. No. 911607



Cat. No. 911107

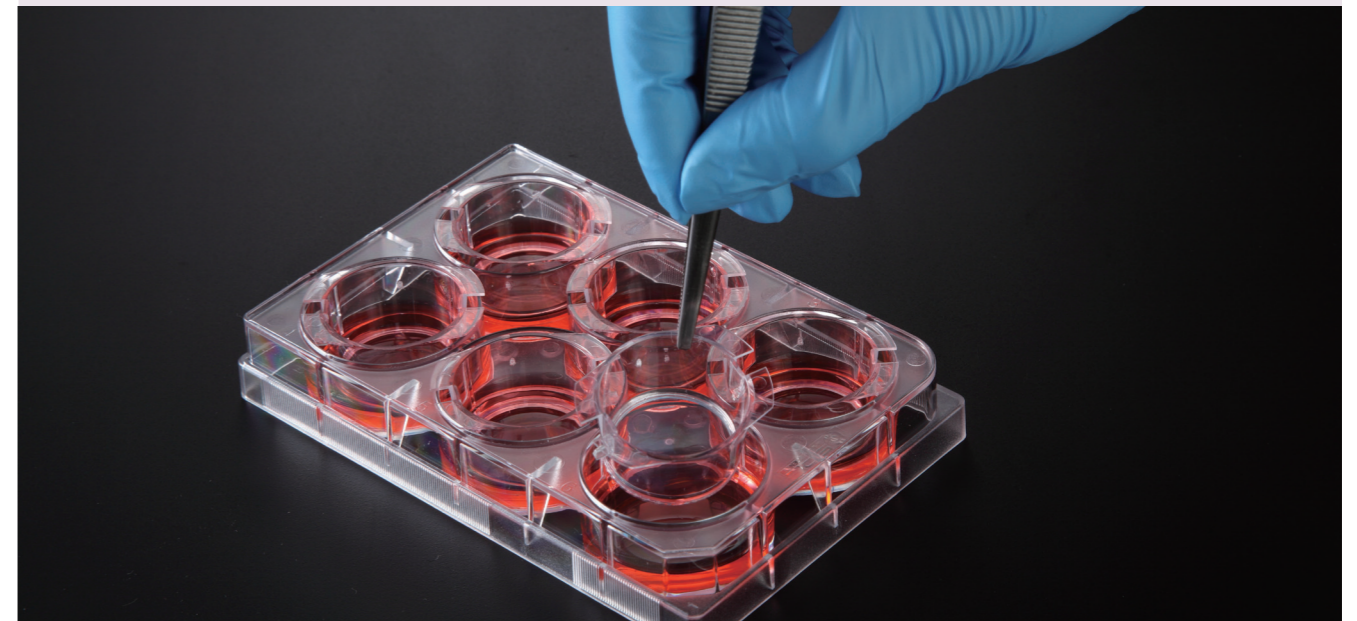
Multi Insert Dish

Type	Cat. No.	Insert Material	Dish Style d x h (mm)	Internal Dimensions d x h (mm)	Growth Area Per Insert (cm ²)	Working Vol. Per Dish (ml)	Groove Bottom	External Grip	Surface Treatment	Low binding Treatment	Sterile	Packaging
	911605	Nylon	60.00 x 20.00	52.80 x 18.00	1.77	15.00	-	+	-	-	+	9 / 18
	911606	PC	60.00 x 20.00	52.80 x 18.00	1.77	15.00	-	+	-	-	+	9 / 18
	911607	Nylon	60.00 x 20.00	49.53 x 19.30	1.77	15.00	+	+	-	-	+	9 / 18
	911615	Nylon	60.00 x 20.00	52.80 x 18.00	1.77	15.00	-	+	+	-	+	9 / 18
	911617	Nylon	60.00 x 20.00	49.53 x 19.30	1.77	15.00	+	+	+	-	+	9 / 18
	911625	Nylon	60.00 x 20.00	52.80 x 18.00	1.77	15.00	-	+	-	+	+	9 / 18
	911627	Nylon	60.00 x 20.00	49.53 x 19.30	1.77	15.00	+	+	-	+	+	9 / 18
	911107	Nylon	104.4 x 37.05	100.00 x 34.80	4.52	20.00	+	+	-	-	+	5 / 10
	911117	Nylon	104.4 x 37.05	100.00 x 34.80	4.52	20.00	+	+	+	-	+	5 / 10

1-5. SPLInsert™

SPLInsert™ products closely mimic *in vivo* environment, providing improved attachment, growth and differentiation of various cell types. With their permeable property, inserts are convenient and effective tools for diverse research areas, such as transportation and invasion studies. Specially selected track-etched membranes of three different pore sizes (0.4, 3.0 and 8.0 μm) are used for SPLInsert™ products. Track-etched membranes ensure precise pore size distribution and consistent pore density, providing well-controlled experimental parameters.

	Surfaces		Materials			
	Cell Culture-Treated	Non-Treated	PS	PC	PET	Nylon
SPLInsert™ Hanging	•			•	•	
SPLInsert™ Standing	•			•	•	
Co-culture Dish (JLK)	•		•			•

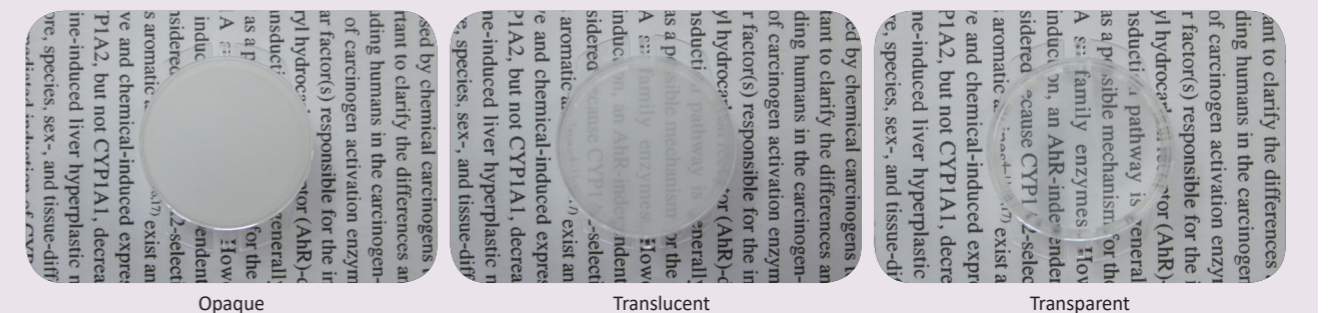


Polycarbonate (PC): stain-free, low background interference

Polyethylene terephthalate (PET): retention of high chemical resistance and low protein binding property

Applicable experiments: invasion, migration, transportation, drug uptake, epithelial polarization, chemotaxis, co-culture, toxicity study and *in vivo* barrier modeling

Optical Properties of Membranes



Opaque

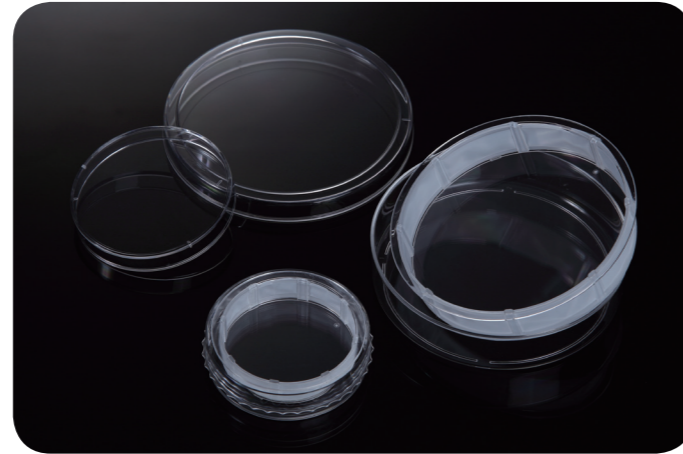
Translucent

Transparent

Co-culture Dish (JLK)

Co-culture Dish (JLK) is designed to study the interactions between two different cell populations in a single dish, provided with an insert mesh to allow bi-directional signal exchange, achieving more *in vivo*-like environment.

- Material (Frame / Mesh): Polystyrene (PS) / Nylon
- Nominal membrane thickness: 10 - 23 µm
- Pore size: 23 µm
- Packed in cell culture-treated cell culture dishes (Cat. No. 20060, 20100)



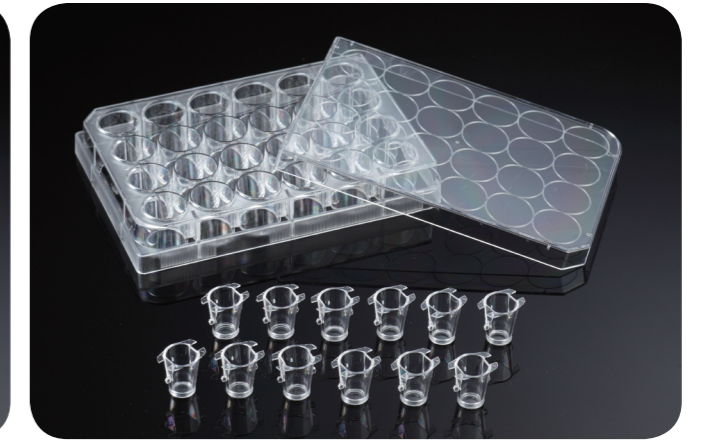
Co-culture Dish (JLK)

Type	Cat. No.	Dish Style d x h (mm)	Internal Dimensions d x h (mm)	Growth Area (cm ²)	Working Vol. (ml)	External Grip	Surface Treatment	Sterile	Packaging
	209260	60.00 x 15.00	52.80 x 12.80	21.50	5.00	+	+	+	10 / 20
	209200	100.00 x 20.00	90.00 x 17.70	57.50	12.50	-	+	+	10 / 20

SPLInsert™ Hanging

SPLInsert™ Hanging keeps certain distance between the membrane and the well bottom to prevent potential damages during handling, suitable for co-culture and permeability assays.

- Distance from membrane to the bottom of the well: 6well Insert 1.2 mm, 24well Insert 1.3 mm
- Nominal membrane thickness: 10 - 23 µm
- Frame material: Polystyrene (PS)
- Packed in cell culture-treated cell culture plates
- Non-pyrogenic
- Non-cytotoxic
- DNase / RNase-free
- Human DNA-free



SPLInsert™ Hanging

Type	Cat. No.	Multiwell Plate Type	Membrane Material	Membrane Pore Size (µm)	Membrane Diameter (mm)	Growth Area (cm ²)	Working Vol. (ml)	Optical Properties	Sterile	Packaging
	35006	6well	PC	0.40	24.00	4.52	1.50 - 2.50	Opaque	+	6 / 24
	35106	6well	PC	3.00	24.00	4.52	1.50 - 2.50	Translucent	+	6 / 24
	35206	6well	PC	8.00	24.00	4.52	1.50 - 2.50	Translucent	+	6 / 24
	35024	24well	PC	0.40	6.50	0.33	0.20 - 0.35	Opaque	+	12 / 48
	35124	24well	PC	3.00	6.50	0.33	0.20 - 0.35	Translucent	+	12 / 48
	35224	24well	PC	8.00	6.50	0.33	0.20 - 0.35	Translucent	+	12 / 48
	36006	6well	PET	0.40	24.00	4.52	1.50 - 2.50	Opaque	+	6 / 24
	36106	6well	PET	3.00	24.00	4.52	1.50 - 2.50	Translucent	+	6 / 24
	36206	6well	PET	8.00	24.00	4.52	1.50 - 2.50	Translucent	+	6 / 24
	36024	24well	PET	0.40	6.50	0.33	0.20 - 0.35	Opaque	+	12 / 48
	36124	24well	PET	3.00	6.50	0.33	0.20 - 0.35	Translucent	+	12 / 48
	36224	24well	PET	8.00	6.50	0.33	0.20 - 0.35	Translucent	+	12 / 48
	37006	6well	PET	0.40	24.00	4.52	1.50 - 2.50	Transparent	+	6 / 24
	37106	6well	PET	3.00	24.00	4.52	1.50 - 2.50	Transparent	+	6 / 24
	37206	6well	PET	8.00	24.00	4.52	1.50 - 2.50	Transparent	+	6 / 24
	37024	24well	PET	0.40	6.50	0.33	0.20 - 0.35	Transparent	+	12 / 48
	37124	24well	PET	3.00	6.50	0.33	0.20 - 0.35	Transparent	+	12 / 48
	37224	24well	PET	8.00	6.50	0.33	0.20 - 0.35	Transparent	+	12 / 48

SPLInsert™ Standing

SPLInsert™ Standing is widely used for cell culture, for instance skin layer culture. The insert can be removed and transferred to other place for additional cell culture.

- Distance from membrane to the bottom of the well: 6well Insert 0.91 mm, 24well Insert 0.85 mm
- Nominal membrane thickness: 10 - 23 µm
- Frame material: Polystyrene (PS)
- Packed in cell culture-treated cell culture plates
- Non-pyrogenic
- Non-cytotoxic
- DNase / RNase-free
- Human DNA-free



SPLInsert™ Standing

Type	Cat. No.	Multiwell Plate Type	Membrane Material	Membrane Pore Size (µm)	Membrane Diameter (mm)	Growth Area (cm ²)	Working Vol. (ml)	Optical Properties	Sterile	Packaging
	35306	6well	PC	0.40	22.74	4.06	2.00 – 6.00	Opaque	+	6 / 24
	35406	6well	PC	3.00	22.74	4.06	2.00 – 6.00	Translucent	+	6 / 24
	35506	6well	PC	8.00	22.74	4.06	2.00 – 6.00	Translucent	+	6 / 24
	35324	24well	PC	0.40	8.75	0.60	0.20 – 0.60	Opaque	+	12 / 48
	35424	24well	PC	3.00	8.75	0.60	0.20 – 0.60	Translucent	+	12 / 48
	35524	24well	PC	8.00	8.75	0.60	0.20 – 0.60	Translucent	+	12 / 48
	36306	6well	PET	0.40	22.74	4.06	2.00 – 6.00	Opaque	+	6 / 24
	36406	6well	PET	3.00	22.74	4.06	2.00 – 6.00	Translucent	+	6 / 24
	36506	6well	PET	8.00	22.74	4.06	2.00 – 6.00	Translucent	+	6 / 24
	36324	24well	PET	0.40	8.75	0.60	0.20 – 0.60	Opaque	+	12 / 48
	36424	24well	PET	3.00	8.75	0.60	0.20 – 0.60	Translucent	+	12 / 48
	36524	24well	PET	8.00	8.75	0.60	0.20 – 0.60	Translucent	+	12 / 48
	37306	6well	PET	0.40	22.74	4.06	2.00 – 6.00	Transparent	+	6 / 24
	37406	6well	PET	3.00	22.74	4.06	2.00 – 6.00	Transparent	+	6 / 24
	37506	6well	PET	8.00	22.74	4.06	2.00 – 6.00	Transparent	+	6 / 24
	37324	24well	PET	0.40	8.75	0.60	0.20 – 0.60	Transparent	+	12 / 48
	37424	24well	PET	3.00	8.75	0.60	0.20 – 0.60	Transparent	+	12 / 48
	37524	24well	PET	8.00	8.75	0.60	0.20 – 0.60	Transparent	+	12 / 48

1-6. SPLPermea™

SPL Life Sciences offers a next generation of culture ware made of high gas permeable material to meet the customer's needs. In cell / tissue engineering research, flat plastic culture wares are commonly used for two-dimensional cell cultures. However, cell cultures on non-gas-permeable plastic culture wares and absence of medium flow may cause rapid exhaustion of dissolved oxygen and accumulation of carbon dioxide, giving extremely harmful stress to the cells. To overcome these issues, special containers utilizing gas permeable membrane were developed.

Gas-permeable membrane of culture ware allows rapid equilibration between partial pressures of oxygen in the atmosphere and those at the pericellular level. Because the diffusion gradients across gas permeable membranes are not steep, dissolved oxygen in culture wares are slightly less than atmospheric oxygen, while respired carbon dioxide rapidly diffuses away from the cells, preventing a drop in pH.

SPLPermea™ Dish

SPLPermea™ Dish, made of gas-permeable film with superior strength and clarity, ensures optimal gas exchange for effective cell culture. Due to its low water permeability, the culture medium is maintained for a long time without leakage or evaporation, while its conventional dish-type structure prevents ambient contamination. The SPLPermea™ Dish has low auto-fluorescence with high light transmission to enable applications in imaging and micro-reading.

- Gas-permeability tested (CO₂, O₂)
- Leakage and evaporation tested
- Transparent for microscopic observation and imaging
- Low auto-fluorescence
- High light transmission
- Ergonomic design for easy handling and minimal contamination

- Non-pyrogenic
- Non-cytotoxic
- DNase / RNase-free
- Human DNA-free



SPLPermea™ Dish

Type	Cat.No.	Material	Dish Style d x h (mm)	Internal Dimensions d x h (mm)	Growth Area (cm ²)	Working Vol. (ml)	External Grip	Surface Treatment	Sterile	Packaging
	200235	PS / Polyolefin	44.88 x 12.65	35.12 x 11.20	9.40	3.00	+	-	+	5 / 50

SPLPermea™ Bag

The SPLPermea™ Bag made of the highest quality USP Class VI materials is a simple-to-use and single use device for cell culture. The unique design allows access to the culture in a closed system environment which reduces the possibility of contamination when compared to that of standard culture wares. The superior permeability to oxygen and carbon dioxide helps to maintain cell viability for a long time and improve cell expansion without the need for changing culture vessel. Additionally, water permeability is very low, so water loss is minimal. This next generation of cell culture bags can be used with greater fill volumes than classical standard cell culture devices, having minimal storage and disposal space in CO₂ incubator.

- Transparent for microscopic observation
- Compliant with USP guideline (USP class VI tested)
- Gas-permeability tested (CO₂, O₂)
- Leakage tested
- Manufactured from gas permeable polyethylene
- Individually packed
- Ergonomic design to facilitate easy handling and minimize contamination
- Cap and needle-free valve with silicon septum
- Cell growth area ranging from 110.5 ~ 325 cm²
- Available in 3 different culture volumes
- Culture bag racks are available (for 250 ml size of bag)
- Non-pyrogenic
- Non-cytotoxic
- DNase / RNase-free
- Human DNA-free



SPLPermea™ Bag

Type	Cat. No.	Material	Dimensions w x l (mm)	Working Vol. (ml)	Sterile	Packaging
	200110	Permea™ Film	162.00 x 115.00	100.00	+	15
	200125	Permea™ Film	223.00 x 146.00	250.00	+	10
	200150	Permea™ Film	254.00 x 154.00	500.00	+	5

SPLPermea™ Rack

SPLPermea™ Racks are useful for handling and storing of 250 ml SPLPermea™ bag.

- For handling and storing of SPLPermea™ Bag
- Colors: Natural



SPLPermea™ Rack

Type	Cat.No.	Material	Dimensions w x l (mm)	Sterile	Packaging
	200425	PP	234.99 x 155.84	-	5

1-7. SPLScar™

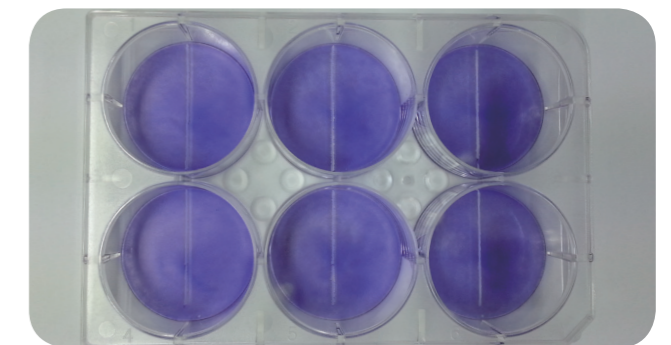
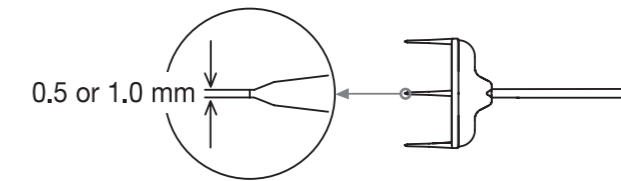
SPLScar™ Products are designed for a wide range of cell studies, including cell migration, wound healing, and cancer metastasis, providing highly uniform and reproducible conditions to enhance the quality of your experiment.

SPLScar™ Scratcher

SPLScar™ Scratcher ensures the uniformity and reproducibility of the possible products used in cancer metastasis, wound healing and cell migration research. SPLScar™ Scratcher consists of a lid with identical holes and a scratcher, suitable for use in 6well or 24well configurations

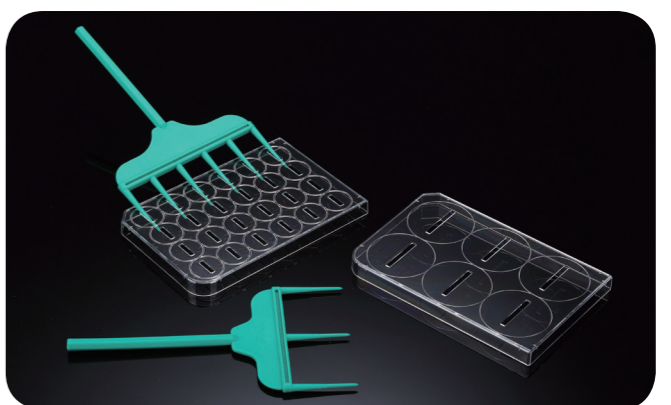
- Scratcher tip width: 0.5 mm or 1.0 mm → allowing a full view of the wound width in a single frame under high-magnifications
- 1 scratcher tip & 1 line lid / pack

- Non-pyrogenic
- Non-cytotoxic
- DNase / RNase-free
- Human DNA-free



SPLScar™ Scratcher

Type	Cat. No.	Lid Type	Material (Scratcher / Lid)	Tip Width (mm)	Sterile	Packaging
	201906	6well	HDPE / PS	0.50	+	1 / 20
	201924	24well	HDPE / PS	0.50	+	1 / 20
	201907	6well	HDPE / PS	1.00	+	1 / 20
	201925	24well	HDPE / PS	1.00	+	1 / 20



SPLScar™ Block

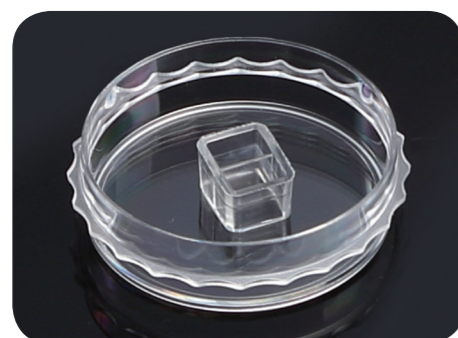
SPLScar™ Block is easily attachable to surface, and thus is applicable to a variety of products for studying cell migration, wound healing, and metastasis of cancer cell. Block is composed of 500 µm-thick-wall to artificially generate cell free gap (s), ensuring higher uniformity and reproducibility.

- Cell Culture Dish (Cat. No. 201935)
- Confocal Dish (Cat. No. 201936 - Glass / Cat.No. 201937 - FLux)
- Confocal Plate (Cat. No. 201916)
- Cell Culture Slide (Cat. No. 201904 - Glass / Cat. No. 201914 - DLux / Cat. No. 201934 - FLux)
- Individually packaged (Cat. No. 201902 - 2well / Cat. No. 201903 - 3well)
- Non-pyrogenic
- Non-cytotoxic
- DNase / RNase-free
- Human DNA-free

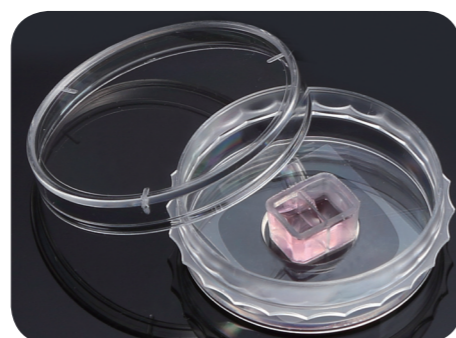


SPLScar™ Block

Type	Cat. No.	Product Type	Bottom Type	Size	Block Well Type	Surface Treatment	Sterile	Packaging
	201935	Cell Culture Dish	PS	35 Ø	2	+	+	1 / dish, total 30
	201936	Confocal Dish	Glass	35 Ø	2	+	+	1 / dish, total 30
	201937	Confocal Dish	FLux	35 Ø	2	+	+	1 / dish, total 30
	201916	Confocal Plate	Glass	6well	2	-	+	6 / plate, total 18
	201904	Cell Culture Slide	Glass	4well	3	-	+	4 / slide, total 24
	201914	Cell Culture Slide	DLux	4well	3	+	+	4 / slide, total 24
	201934	Cell Culture Slide	FLux	4well	3	+	+	4 / slide, total 24
	201902	Individual	-	-	2	-	+	total 25
	201903	Individual	-	-	3	-	+	total 25



Cat. No. 201935



Cat. No. 201937



Cat. No. 201902, 201903



Cat. No. 201916, 201937, 201904

1-8. In vitro Fertilization

SPL IVF Products are designed for application for treatment in obstetrics / gynecology and specific cell culture research, such as human embryonic cell culture.

SPL IVF Products provide optimized surface for culturing embryonic cells and maintaining their morphology and specific functions. It is recommended that cells cultured in SPL Life Sciences IVF Products are maintained in appropriate culture medium and culture grade chemicals.

	Surfaces		Material
	Cell Culture-Treated	Non-Treated	PS
4well Plate	•	•	•
IVF Culture Dish	•	•	•

Cell Culture Plate 4well

- Designed to prevent cross contamination
- Effective gas exchange lid inner design
- Alphanumeric labeling
- Compliant with USP guideline (USP class VI tested)
- Compliant with ANSI guideline
- Mouse Embryo Assay (MEA) test passed
- Non-pyrogenic
- Non-cytotoxic
- Non-genotoxic
- Non-mutagenic
- DNase / RNase-free
- Human DNA-free



Cell Culture Plate 4well

Type	Cat. No.	Material	External Dimensions d x h (mm)	Well Dimension (mm)	Growth Area (cm ²)	Working Vol. (ml)	Surface Treatment	Sterile	Packaging
	30004	PS	66.00 x 66.00	15.80	2.00	1.00	+	+	4 / 120
	32004	PS	66.00 x 66.00	15.80	2.00	1.00	-	+	4 / 120

IVF Culture Dish

SPL Life Sciences provides IVF Culture Dishes for *in vitro* fertilization researches.

- Center well type (Cat. No. 20260, 20261)
- External grip for handling
- Compliant with USP guideline (USP class VI tested)
- Compliant with ANSI guideline
- Mouse Embryo Assay (MEA) Test passed
- Non-pyrogenic
- Non-cytotoxic
- Non-genotoxic
- Non-mutagenic
- DNase / RNase-free
- Human DNA-free



IVF Culture Dish

Type	Cat. No.	Material	External Dimensions d x h (mm)	Center Well Dimension d (mm)	Surface Treatment	Sterile	Packaging
	20260	PS	60.00 x 15.00	20.00	+	+	10 / 500
	20261	PS	60.00 x 15.00	20.00	-	+	10 / 500
	20262	PS	60.00 x 15.00	-	+	+	10 / 500
	20263	PS	60.00 x 15.00	-	-	+	10 / 500

1-9. Cryopreservation

Cryovial

SPL Cryopreservation products are store cells, tissues, specimens, microbiological samples, nucleic acid and protein samples in extreme temperatures ranging from -196°C to 60°C.

- Use only in vapor-phased liquid nitrogen
- Distinctive external & Internal cap design
- External cap: External thread of the body fits perfectly into internal thread of the cap in helical form
- Internal cap: Internal thread of the body fits perfectly into the external thread of the cap in helical form
- Self-standing bottom
- Packed in re-closeable zip-lock pack
- Without Silicone washer (Cat. No. 43012)
- Vial Cap Insert: Available in 5 colors (Cat. No. 43032)
- Recommended volume for cryopreservation (Cat. No. 43113, 43023): 4.50 ml
- Non-pyrogenic
- Non-cytotoxic
- DNase / RNase-free
- Human DNA-free

Cryovial

Type	Cat. No.	Material (Tube / Cap)	Cap Type	Bottom Type	Color	Total Vol. (ml)	External Dimensions d x h (mm)	Washer	Sterile	Packaging
	43111	PP / HDPE	External	Conical	Clear	1.20	13.10 x 42.50	+	+	50 / 500
	43021	PP / PP	Internal	Conical	Clear	1.20	13.10 x 42.50	+	+	50 / 500
	43012	PP / HDPE	External	Round	Clear	1.80	13.10 x 45.50	-	+	50 / 500
	43112	PP / HDPE	External	Round	Clear	1.80	13.10 x 47.80	+	+	50 / 500
	43022	PP / PP	Internal	Round	Clear	1.80	13.10 x 49.70	+	+	50 / 500
	43113	PP / HDPE	External	Round	Clear	5.00	13.10 x 92.00	+	+	50 / 500
	43023	PP / PP	Internal	Round	Clear	5.00	13.10 x 92.00	+	+	50 / 500
	44112	PP / HDPE	External	Round	Amber	1.80	13.10 x 47.80	+	+	50 / 500
	44022	PP / PP	Internal	Round	Amber	1.80	13.10 x 49.70	+	+	50 / 500
	43032	PP	Cap Insert	-	5 color	-	10.40	-	-	100 / 500



Cryo Box, Cryovial Rack

Cryo Boxes are useful for storing vials in ultra low temperature environments.

- For storing of microcentrifuge tubes or cryovials
- Designed for enhanced drainage of liquid nitrogen
- Alphanumeric indications for sample location
- Temperature range: -196°C to +121°C (Cat. No. 80025, 80081, 80281)
- 3 colors: Blue, Pink, Green (Cat. No. 80025, 80081, 80281)
- Cardboard Box: Moisture repellent coating (Cat. No. 80181)
- 1.2 ml / 1.8 ml Cryovials are available (Cat. No. 80025, 80081, 80181)
- 5 ml Cryovial use only (Cat. No. 80281)

Cryo Box

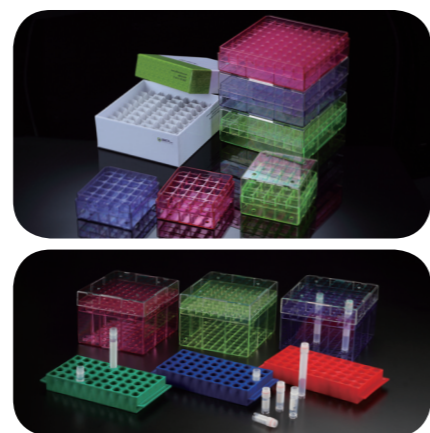
Type	Cat. No.	Material	Feature	Description	Packaging
	80025	PC	3 Colors	5 x 5 (25 Holes)	1 / 20
	80081	PC	3 Colors	9 x 9 (81 Holes)	1 / 10
	80281	PC	3 Colors	9 x 9 (81 Holes)	1 / 6
	80181	Cardboard	-	9 x 9 (81 Holes)	40

Cryovial Rack

	61050	PP	3 Colors	5 x 10 (50 Holes)	10
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SPL Cryovial Racks are designed for handling and storage of Cryovials.

- Numeric labeling
- 3 colors: Blue, Green, Red
- Autoclavable



Cryo Tissue Container

SPL Life Sciences provides vessels for cryogenic storage of tissue samples. Cryo Tissue Container is suitable for use in -80°C deep freezer or in the vapor-phased liquid nitrogen up to -178°C. The stackable block-shaped structure is convenient for storing and transporting samples.

- Use only in vapor-phased liquid nitrogen
- Stackable feature
- Two marking area on outside



Cryo Tissue Container

Type	Cat. No.	Material (Cap / Body)	External Dimensions w x l x h (mm)	Internal Dimensions d x h (mm)	Total Vol. (ml)	Sterile	Packaging
	43014	HDPE / PP	30.00 x 30.00 x 27.20	15.20 x 10.70	1.50	+	50 / 100

1-10. SPLFlow™

SPLFlow™

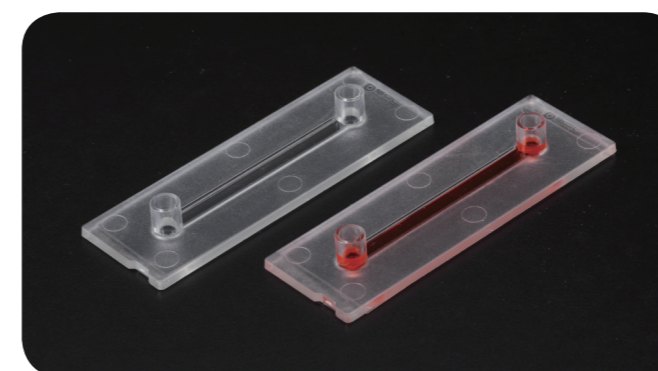
SPLFlow™ is designed for adherent cell culture under flow conditions. SPLFlow™ enables shear stress analysis by controlling the flow rate and exhibits high-resolution real-time microscopy of living cells and fixed cells.

SPL Life Sciences provides two types: SPLFlow™ Straight (Cat. No. 202501) and Gradient (Cat. No. 202502). Straight type is suitable for large area of uniform shear stress analysis. Gradient type is a special channel design intended to observe linear shear stress in a flow field.

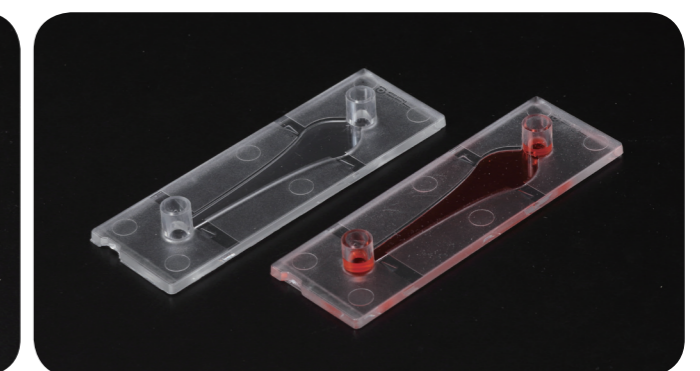
- Channel thickness: 500 μm
- Working volume: 150 μl
- Non-pyrogenic
- Non-cytotoxic
- DNase / RNase-free
- Human DNA-free

SPLFlow™

Type	Cat. No.	Material (Outer / Bottom)	Dimensions w x l (mm)	Growth Area (cm ²)	Working Vol. (μl)	Sterile	Packaging
	202501	DLux / FLux	25.00 x 75.00	2.09	150.00	+	1 / 10
	202502	DLux / FLux	25.00 x 75.00	3.15	150.00	+	1 / 10



Cat. No. 202501



Cat. No. 202502

1-11. Accessories

SPL Life Sciences provides various accessories for cell culture.

Cell Strainer

Cell Strainers of SPL Life Sciences are ideal for obtaining uniform single cell suspension from various sources. Cell Strainers are made of nylon with 3 different pore size meshes, showing optimal performances in a variety of applications such as stem cell and primary cell preparation.

- Ideal for stem cell and tissue-derived primary cell preparation
- Fits into SPL 50 ml Conical Tubes (Please inquire for other conical tubes)
- 3 different pore size: 40, 70 or 100 µm
- Non-pyrogenic
- Non-cytotoxic
- DNase / RNase-free
- Human DNA-free



Cell Strainer

Type	Cat. No.	Material (Frame / Mesh)	Color	Pore Size (µm)	Sterile	Packaging
	93040	PP / Nylon	Blue	40.00	+	1 / 50
	93070	PP / Nylon	Clear	70.00	+	1 / 50
	93100	PP / Nylon	Yellow	100.00	+	1 / 50

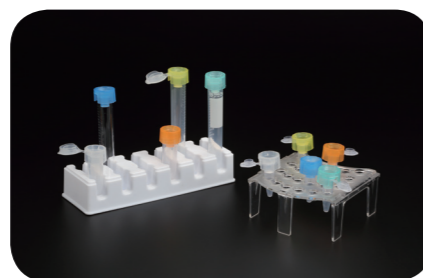
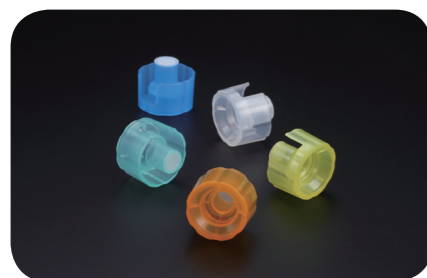
Multi C-Strainer

Multi Cell Strainer (C-Strainer) is used for rapid cell separation from the primary tissue or cell mass. The Multi C-Strainer is the most flexible small cell strainer fitting on a wide range of tubes, e.g. 1.5 ml Microcentrifuge Tubes (Cat. No. 60015), Test Tubes (Cat. No. 40005), 5 ml Tubes (Cat. No. 50005, 51005), 15 ml Conical Tubes (Cat. No. 50015). Its unique design allows avoiding overflow and helps speedy filtration.

- Ideal for stem cell and tissue-derived primary cell preparation
- Fits into from 1.5 ml Microcentrifuge Tubes (Cat. No. 60015) to 15 ml Conical Tubes (Cat. No. 50015)
- 5 different pore size: 20, 30, 40, 70, 100 µm
- Non-pyrogenic
- Non-cytotoxic
- DNase / RNase-free
- Human DNA-free

Multi C-Strainer

Type	Cat. No.	Material (Frame / Mesh)	Color	Pore Size (µm)	Sterile	Packaging
	94020	PP / Nylon	Green	20.00	+	1 / 50
	94030	PP / Nylon	Orange	30.00	+	1 / 50
	94040	PP / Nylon	Blue	40.00	+	1 / 50
	94070	PP / Nylon	Clear	70.00	+	1 / 50
	94100	PP / Nylon	Yellow	100.00	+	1 / 50



Cell Lifter

Cell Lifters are specially designed for easy scraping of attached cells on culture dish & plate surfaces. Individual packing eliminates possible chances of contamination during cell culture.

- Ideal for the manual harvesting of cells
- Two blade types on a single handle
- Wide blade types are ideal for dish and 6well plates
- Non-pyrogenic
- Non-cytotoxic
- DNase / RNase-free
- Human DNA-free



Cell Lifter

Type	Cat. No.	Material	Length (mm)	Blade Width (mm)	Sterile	Packaging
	90040	PP	218.00	23.00 / 12.00	+	1 / 100

Cell Scraper

Cell Scrapers are designed to facilitate the collection of attached cells on culture dishes, flasks, or plates. Sterilization and individual packing eliminate possible chances of contamination during cell culture and scraper handling.

- Ideal for the manual harvesting of cells
- Soft blade, made of LDPE, for gentle collection of cells without damages
- Available in 2 different width types: 13 or 20 mm
- Non-pyrogenic
- Non-cytotoxic
- DNase / RNase-free
- Human DNA-free

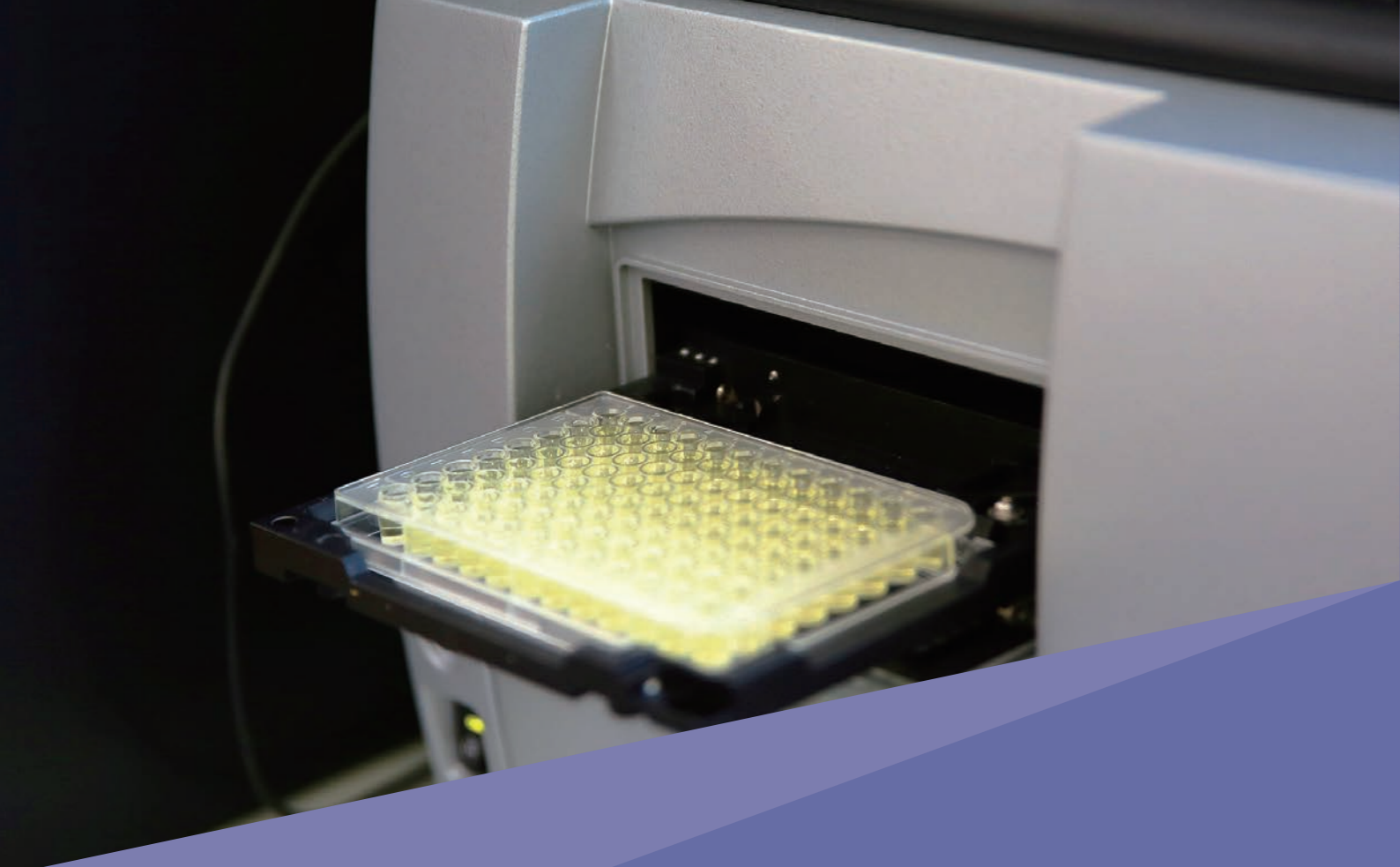
Cell Scraper

Type	Cat. No.	Material (Handle / Blade)	Length (mm)	Blade Width (mm)	Sterile	Packaging
	90020	PS / LDPE	237.00	13.00	+	1 / 100
	90021	PS / LDPE	237.00	13.00	+	1 / 100
	90030	PS / LDPE	290.00	20.00	+	1 / 100
	90031	PS / LDPE	290.00	20.00	+	1 / 100



Cat. No. 90031 / 90021

Cat. No. 90030 / 90020



02

Molecular Analysis

SPL Life Sciences provides reliable and high-quality products to make molecular analyses more convenient and efficient. With the advancement of technology, more studies were conducted to explain the phenomena of life through molecular analysis.

One of the most common molecular analysis methods is immunoassay; SPL microplates are available with a wide range of options that includes surface, color, bottom and well types, and PCR tubes for applications in polymerase chain reaction (PCR).

Contents

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2-1. Immunoassay

Immunoassay is a standardized technique for detecting biomolecules with high specificity and sensitivity based on the antigen-antibody binding. SPL provides four different surface hydrophobicities to respond to different biomolecules. SPL's immunoassay microplates are manufactured from optically clear virgin polystyrene, ideal for all immunosorbent assays.

SPL Life Sciences manufactures microplates for diagnostics and immunological researches. SPL provides researchers with a variety of microplates specifically designed for immunoassay:

- * Maxibinding: Modified polystyrene surface provides higher binding capacity for proteins and other molecules with both hydrophilic and hydrophobic regions. (Recommended for most ELISA experiments)
- * Medibinding: Surface adsorbs proteins and molecules that consist of intermediate hydrophobic and hydrophilic properties. (Antigen / Antibody ELISA; More hydrophobic compared to Maxibinding plates)
- * Unibinding: Suitable for adsorption of hydrophobic molecules. (Antigen ELISA)
- * Multibinding: Especially suitable for adsorbing hydrophilic molecules. (Antigen ELISA)



Homogeneity

SPL provides immunoplates in standardized form, applicable to almost all laboratory ELISA equipment, to produce consistent results between wells or plates, regardless of the date of manufacture.

Color types

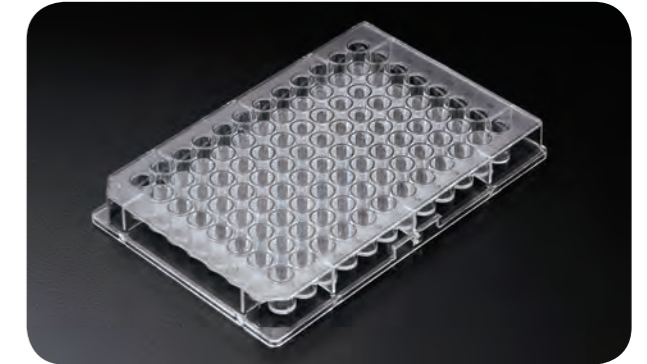
Three different colored plates are available with specific functions. While transparent clear plates are suitable for colorimetric assays, white and black plates are ideal for fluorescence and luminescence assays. White plates ensure maximum reflection and minimum cross-talk, appropriate for luminescence assay. Black plates ensure minimum light scattering and cross-talk during fluorescence assay.

Bottom types

Flat well bottom has excellent optical transmission and low background absorbance. Round well bottom allows easy mixing and washing.

Immunoplate

- Plate type (96well plate)
- Lid not included
- 2 types bottom: Flat or Round
- Developed for immunoassay (ELISA) and general binding assay
- Uniform surface homogeneity
- Raised rims on the wells
- Alphanumeric labeling
- Designed for easy handling and automation

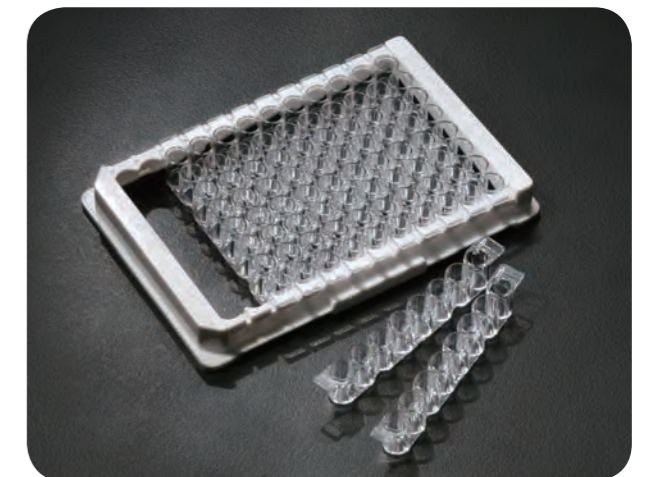


Immunoplate

Type	Cat. No.	Material	Bottom Type	Surface Type	External Dimensions w x l x h (mm)	Bottom Surface Area (cm ²)	Total Vol. (μl)	Working Vol. (μl)	Packaging
	32296	PS	Flat	Maxibinding	85.40 x 127.60 x 14.40	0.33	300.00	200.00	10 / 100
	32396	PS	Flat	Medibinding	85.40 x 127.60 x 14.40	0.33	300.00	200.00	10 / 100
	32496	PS	Flat	Unibinding	85.40 x 127.60 x 14.40	0.33	300.00	200.00	10 / 100
	32596	PS	Flat	Multibinding	85.40 x 127.60 x 14.40	0.33	300.00	200.00	10 / 100
	32696	PS	Round	Maxibinding	85.40 x 127.60 x 14.40	0.66	300.00	200.00	10 / 100
	32796	PS	Round	Unibinding	85.40 x 127.60 x 14.40	0.66	300.00	200.00	10 / 100

Immunoplate Strip

- 8well strip type
- Lid not included
- Developed for immunoassay (ELISA) and general binding assay
- Flat bottom
- Uniform surface homogeneity
- Raised rims on the wells
- Alphanumeric labeling
- Designed for easy handling and automation



Immunoplate Strip

Type	Cat. No.	Material	Surface Type	External Dimensions w x l x h (mm)	Bottom Surface Area (cm ²)	Total Vol. (μl)	Working Vol. (μl)	Packaging
	38096	PS	Maxibinding	85.40 x 127.60 x 14.40	0.33	300.00	200.00	10 / 100
	38196	PS	Medibinding	85.40 x 127.60 x 14.40	0.33	300.00	200.00	10 / 100
	38496	PS	Unibinding	85.40 x 127.60 x 14.40	0.33	300.00	200.00	10 / 100
	38596	PS	Multibinding	85.40 x 127.60 x 14.40	0.33	300.00	200.00	10 / 100

Immunoplate Strip Single Well

- Strip single well type (8well / strip, breakable well)
- Lid not included
- Developed for immunoassay (ELISA) and general binding assay
- Uniform surface homogeneity
- Flat bottom
- Raised rims on the wells
- Alphanumeric labeling
- Designed for easy handling and automation



Immunoplate Strip Single Well

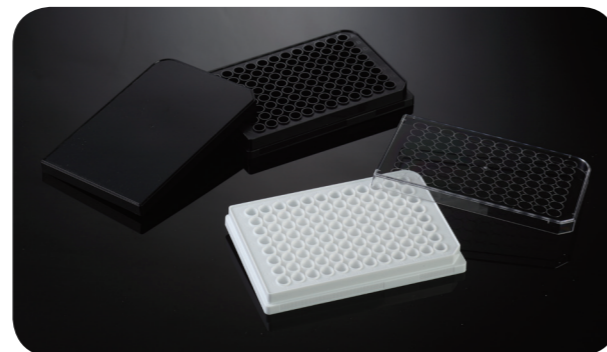
Type	Cat. No.	Material	Surface Type	External Dimensions w x l x h (mm)	Bottom Surface Area (cm ²)	Total Vol. (μl)	Working Vol. (μl)	Packaging
	38296	PS	Maxibinding	85.40 x 127.60 x 14.40	0.33	300.00	200.00	10 / 100
	38396	PS	Medibinding	85.40 x 127.60 x 14.40	0.33	300.00	200.00	10 / 100
	38696	PS	Unibinding	85.40 x 127.60 x 14.40	0.33	300.00	200.00	10 / 100
	38796	PS	Multibinding	85.40 x 127.60 x 14.40	0.33	300.00	200.00	10 / 100

Black & White Immunoplate

SPL provides high-quality 96well plates suitable for various high throughput assays. Fluorescence and luminescence assays have been successfully tested with SPL 96well microplates by many high throughput laboratories. SPL 96well microplates have a characteristic feature of high signal with low background.

- White plates provide maximum reflection and minimum cross-talk for luminescence assay.
- Black plates are designed for minimum light scattering and cross-talk during fluorescence assay.

- Suitable for fluorescence assay, luminescence assay
- 2 surface types
- Individual lids provided for each plate (Black plate with black lid, White plate with transparent lid)
- Plate type (96well plate)
- HTS (High-Throughput Screening) compatible
- Flat bottom
- Raised rims on the wells
- Alphanumeric labeling
- Designed for easy handling and automation



Black & White Immunoplate

Type	Cat. No.	Material	Plate Color	Surface Type	External Dimensions w x l x h (mm)	Bottom Surface Area (cm ²)	Total Vol. (μl)	Working Vol. (μl)	Packaging
	31396	PS	White	Maxibinding	85.40 x 127.60 x 14.40	0.33	300.00	200.00	10 / 100
	31496	PS	Black	Maxibinding	85.40 x 127.60 x 14.40	0.33	300.00	200.00	10 / 100
	31196	PS	White	Unibinding	85.40 x 127.60 x 14.40	0.33	300.00	200.00	10 / 100
	31296	PS	Black	Unibinding	85.40 x 127.60 x 14.40	0.33	300.00	200.00	10 / 100

B & W Immunoplate Strip

SPL Life Sciences provides high-quality luminescence assays. Successful testing of SPL products have been performed in many research laboratories, with results featuring high signal with low background.

- White plates provide maximum reflection and minimum cross-talk for luminescence assay.
- Black plates are designed for minimum light scattering and cross-talk during fluorescence assay.

- Suitable for fluorescence and luminescence assays
- 2 surface types
- 8well strip type
- Lid not included
- Flat bottom
- Raised rims on the wells
- Alphanumeric labeling
- Designed for easy handling and automation



B & W Immunoplate Strip

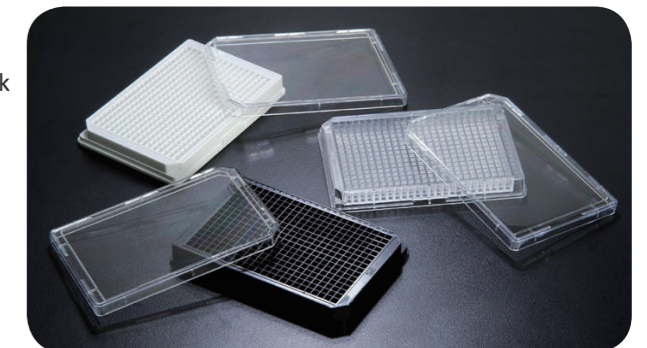
Type	Cat. No.	Material	Well Color	Surface Type	External Dimensions w x l x h (mm)	Bottom Surface Area (cm ²)	Total Vol. (μl)	Working Vol. (μl)	Packaging
	31796	PS	White	Maxibinding	85.40 x 127.60 x 14.40	0.33	300.00	200.00	10 / 100
	31896	PS	Black	Maxibinding	85.40 x 127.60 x 14.40	0.33	300.00	200.00	10 / 100
	31596	PS	White	Unibinding	85.40 x 127.60 x 14.40	0.33	300.00	200.00	10 / 100
	31696	PS	Black	Unibinding	85.40 x 127.60 x 14.40	0.33	300.00	200.00	10 / 100

384 HT Plate

SPL Life Sciences provides high-quality 384 HT Plates for high throughput research laboratories. Fluorescent and luminescent assays have been successfully tested with SPL 384 HT Plates, results featuring high signal with low background.

- White plates provide maximum reflection and minimum cross-talk for luminescence assay.
- Black plates are designed for minimum light scattering and cross-talk during fluorescence assay.

- 2 surface types
- Suitable for colorimetry, fluorescence and luminescence assays
- HTS (High-Throughput Screening) compatible
- Transparent lid provided with each well plate
- Flat bottom
- Alphanumeric labeling



384 HT Plate

Type	Cat. No.	Material	Plate Color	Surface Type	External Dimensions w x l x h (mm)	Bottom Surface Area (cm ²)	Total Vol. (μl)	Working Vol. (μl)	Packaging
	34384	PS	Clear	Maxibinding	85.40 x 127.60 x 14.40	0.07	120.00	100.00	10 / 40
	35384	PS	White	Maxibinding	85.40 x 127.60 x 14.40	0.07	120.00	100.00	10 / 40
	36384	PS	Black	Maxibinding	85.40 x 127.60 x 14.40	0.07	120.00	100.00	10 / 40
	31384	PS	Clear	Unibinding	85.40 x 127.60 x 14.40	0.07	120.00	100.00	10 / 40
	32384	PS	White	Unibinding	85.40 x 127.60 x 14.40	0.07	120.00	100.00	10 / 40
	33384	PS	Black	Unibinding	85.40 x 127.60 x 14.40	0.07	120.00	100.00	10 / 40

Miniwell Tray

Miniwell Tray are used in a broad spectrum of applications, including cloning experiments, sample incubations, and in tissue culture based analytical systems. The crystallisation drop is localized centrally as a result of the conical well geometry, and the flat bottom makes for optimal monitoring.

- Terasaki format plate
- Stackable
- Virgin, high clarity polystyrene (Excellent optical)
- Surface treatment and Sterilized (Cat. No. 30060, 30072)
- Non-pyrogenic
- Non-cytotoxic
- DNase / RNase-free
- Human DNA-free



Type	Cat. No.	Well Type	Material	External Dimension w x l (mm)	Working vol. (µL)	Surface Treatment	Sterile	Packaging
	30060	60	PS	83.00 x 58.00	10.00	+	+	10 / 100
	31060	60	PS	83.00 x 58.00	10.00	-	-	10 / 100
	30072	72	PS	83.00 x 58.00	10.00	+	+	10 / 100
	31072	72	PS	83.00 x 58.00	10.00	-	-	10 / 100

Immunotube

SPL Life Sciences provides immunotubes for diagnostics and immunological purposes.

- 2 surface types
- For immunoassay (ELISA, RIA)
- High optical quality



Type	Cat. No.	Material	Surface Type	External Dimensions d x h (mm)	Total Vol. (ml)	Packaging
	43005	PS	Unibinding	12.00 x 75.00	5.00	250 / 2,000
	43015	PS	Maxibinding	12.00 x 75.00	5.00	250 / 2,000

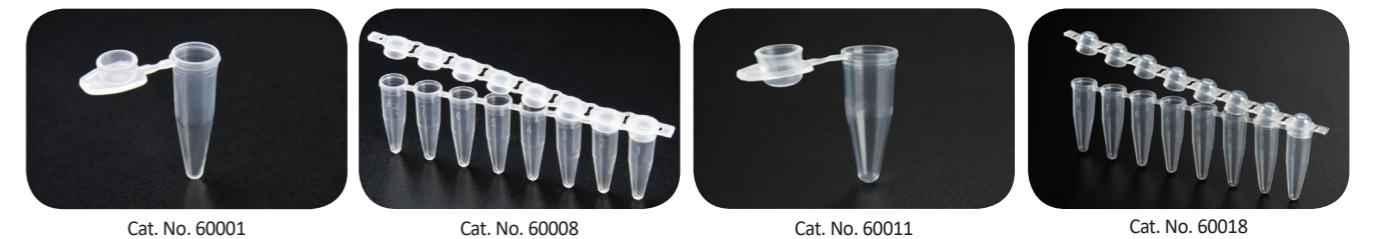
2-2. Molecular Biology

PCR Tube

SPL provides 0.2 ml PCR tube in a standardized form, applicable to almost all laboratory PCR equipment. The wall of the PCR tube is designed relatively thin to optimally conduct heat to the reaction solution. The tight sealing between the tube body and its cap ensures minimal evaporation and prevents sample leakages. The cap is provided in 2 different forms, flat and dome. Flat type is useful when labeling is required, while dome type prevents the reaction solution from binding to the cap surface. SPL provides single PCR tube with a cap attached, and strip tubes, composed of 8 bodies and 8 caps connected horizontally.

- Designed to prevent contamination
- Designed for effective thermal conductivity
- Smooth opening and tight sealing
- 2 tube types: Single or Strip
- 2 cap types: Flat or Dome
- Separately packaged bodies and caps (Cat. No. 60008, 60018)
- Non-pyrogenic
- Non-cytotoxic
- DNase / RNase-free
- Human DNA-free

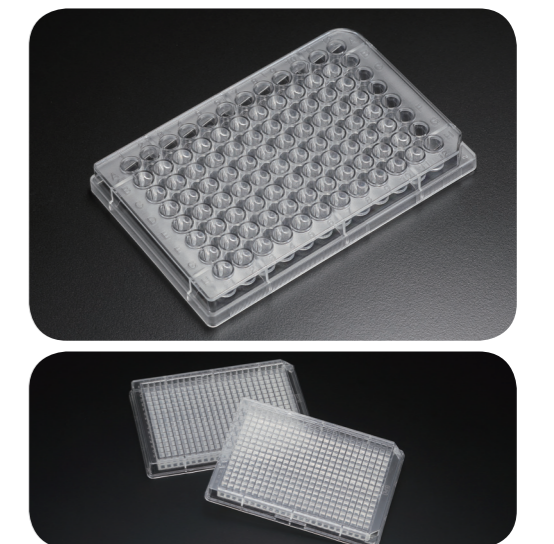
Type	Cat. No.	Material	Cap Type	Tube Type	Total Vol. (ml)	Sterile	Packaging
	60001	PP	Flat	Single	0.20	-	500 / 1,000
	60008	PP	Flat	Strip	0.20	-	120 / 120
	60011	PP	Dome	Single	0.20	-	500 / 1,000
	60018	PP	Dome	Strip	0.20	-	120 / 120



UVMax™

SPL UVMax™ is a specialized plate intended for use in lower wavelength. The maximal transmittance is achieved between 260 and 280 nm, ideal for DNA and protein quantification. The plate with low background enables users to acquire more accurate experimental data. Unlike conventional laboratory cuvettes, SPL UVMax™ Plate allows for High-Throughput Screening (HTS) process and eliminates the need for expensive and fragile quartz / glass-type plates.

- 96well and 384well plate type
- Developed for determining concentrations of protein and / or nucleic acid
- Certified for low background and consistent performance at 260 and 280 nm
- Flat bottom
- Uniform surface homogeneity
- Lid not included
- Alphanumeric labelling



Type	Cat. No.	Material (Plate / Bottom)	Well Type	Bottom Type	External Dimensions w x l x h (mm)	Bottom Surface Area (cm ²)	Total Vol. (ml)	Packaging
	33096	PS / Film	96well	Flat	85.40 x 127.60 x 14.40	0.33	0.30	10 / 40
	330384	PS / Film	384well	Flat	85.40 x 127.60 x 14.40	0.07	0.20	1 / 20

Filter Tube

SPL Life Science provides a microcentrifuge tube filter based on the filter membrane for sample preparation of experiment. High-speed centrifugation through Filter Tube enables fast sample preparation and reduces contamination risk.

- 2 pore size: 0.22, 0.45 μm
- Standard Microcentrifuge Tube capacity: 1.5 ml (Cat. No. 60015)
- SPL 2.0 ml Microcentrifuge Tube compatible (Cat. No. 61020)
- Without Microcentrifuge Tube (Cat. No. 65115, 65215, 66115, 66215)



Filter Tube

Type	Cat. No.	Material	Membrane Material	Membrane Pore Size (μm)	Working Vol. (ml)	RCF Rating	Microcentrifuge Tube	Sterile	Packaging
	65105	PP	Cellulose Acetate	0.22	0.50	15,000 x g	+	+	25 / 100
	65115	PP	Cellulose Acetate	0.22	0.50	15,000 x g	-	+	25 / 100
	65205	PP	Cellulose Acetate	0.45	0.50	15,000 x g	+	+	25 / 100
	65215	PP	Cellulose Acetate	0.45	0.50	15,000 x g	-	+	25 / 100
	66105	PP	Cellulose Acetate	0.22	0.50	15,000 x g	+	-	25 / 100
	66115	PP	Cellulose Acetate	0.22	0.50	15,000 x g	-	-	25 / 100
	66205	PP	Cellulose Acetate	0.45	0.50	15,000 x g	+	-	25 / 100
	66215	PP	Cellulose Acetate	0.45	0.50	15,000 x g	-	-	25 / 100

Vacuum Filter Tube

Hydrophilic PES membrane filter adopted to the product has less adsorption of protein or miscellaneous substances, and excellent durability. This provides a convenience for direct collection of samples by combining with 50 ml Conical Tube, which requires no secondary step to transfer them to after filtration. This is very useful for sterile-filtration of media or reagent at a small volume, and for separation of cells.

- Individual Packing
- 2 pore size: 0.22, 0.45 μm

- Non-cytotoxic
- Non-pyrogenic



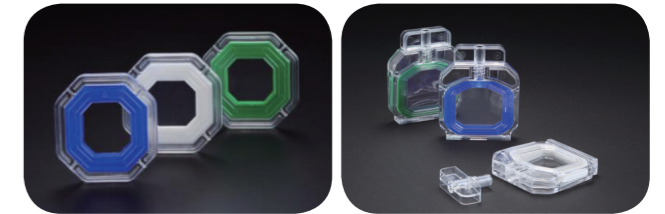
Vacuum Filter Tube

Type	Cat. No.	Material (Funnel / Cap / Tube / Membrane)	Pore size (μm)	Volume (ml) (Funnel / Tube)	Sterile	Packaging
	50850	PS / HDPE / PP / PES	0.22	150.00 / 50.00	+	1 / 12
	50851	PS / HDPE / PP / PES	0.45	150.00 / 50.00	+	1 / 12

Dialysis Chamber

Dialysis Chamber is used for various dialysis applications such as desalting, buffer exchange, labeling, reagent removal, drug binding experiment, cell growth and supply, virus purifications, blood transformation, etc. It is configured to rapidly and effectively dialysis a wide range of 3 ml ~ 15 ml volume, and guarantees 95 ~ 98% higher recovery rate than Dialysis tubing type.

- Excellent pH and chemical stability (pH 5~ 9)
- Membrane composition: Regenerated Cellulose (RC)
- Membrane Weight Cut-Off (MWCO): 3.5K, 7K, 14K
- 3 ml Dialysis Chamber (Cat. No. 97003, 97007, 97014)
- 15 ml Dialysis Chamber (Cat. No. 97103, 97107, 97114)
- Float buoys for floating 3 ml dialysis Chamber (Cat. No. 97099)



Dialysis Chamber

Type	Cat. No.	Material	Color	MWCO	Working Vol. (ml)	Packaging
	97003	PC / RC	Green	3.5 K	3.00 - 5.00	1 / 10
	97007	PC / RC	Blue	7 K	3.00 - 5.00	1 / 10
	97014	PC / RC	White	14 K	3.00 - 5.00	1 / 10
	97099	Sponge	White	-	-	10
	97103	PC / RC	Green	3.5 K	13.00 - 15.00	1 / 8
	97107	PC / RC	Blue	7 K	13.00 - 15.00	1 / 8
	97114	PC / RC	White	14 K	13.00 - 15.00	1 / 8

Gel Extractor

Gel extractor is an easy-to-use and quick alternative to extract DNA and RNA bands from agarose gels after gel electrophoresis. Gel extractor allows a precise excision of targeted gel material without sharps and blades. For one-handed, safe and easy gel cutting, the gel extractor is the cost effective solution.

- On-Handed gel easy cutting
- Disposable: no risk of cross contamination
- Cut DNA and RNA bands from agarose gels
- High yield recovery
- Non-cytotoxic
- Non-pyrogenic
- DNase / RNase-free
- Human DNA-free



Gel Extractor

Type	Cat. No.	Material	Cutter Dimensions w x l x h (mm)	Total Length (mm)	Packaging
	410511	PE	6.50 x 3.00 x 20.00	60.00	100

Blood Separation Tube

Blood Separation Tube is a product that facilitates the separation of peripheral blood mononuclear cell (PBMC) from the blood. The filter inside the tube prevents mixing of the PBMC, lymphocyte, and pellets

- Simplify injection of Separation media or blood samples
- Fast separation (15 min)
- Prevent the pellets from mixing after removal
- Non-cytotoxic
- Non-pyrogenic
- DNase / RNase-free
- Human DNA-free

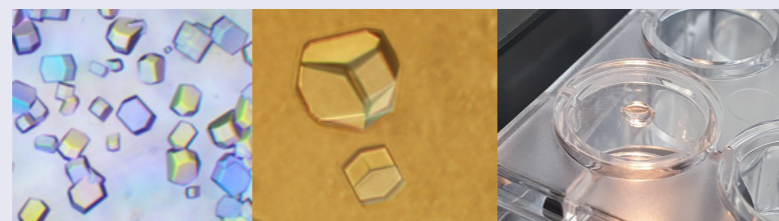


Blood Separation Tube

Type	Cat. No.	Material	Bottom Type	External Dimension d x h (mm)	Total Vol. (ml)	Sample Vol. (ml)	Sterile	Packaging
	50950	PP	Conical	30.00 x 115.00	50.00	15.00 - 30.00	+	25 / 300
	50951	PP	Conical	30.00 x 115.00	50.00	15.00 - 30.00	-	25 / 300

2-3. SPLPro-Crystal™

X-ray crystallography is a technique that uses X-ray diffraction patterns to determine high-resolution, three-dimensional structures of molecules such as proteins, small organic molecules, and materials. The substance of interest must be in crystalline form, which typically requires testing various crystallization conditions. The vapor diffusion method is a common technique used to crystallize proteins.



* Lysozyme crystals grown in the presence of 10 % v/v sodium chloride and 100 mM sodium acetate pH 4.6

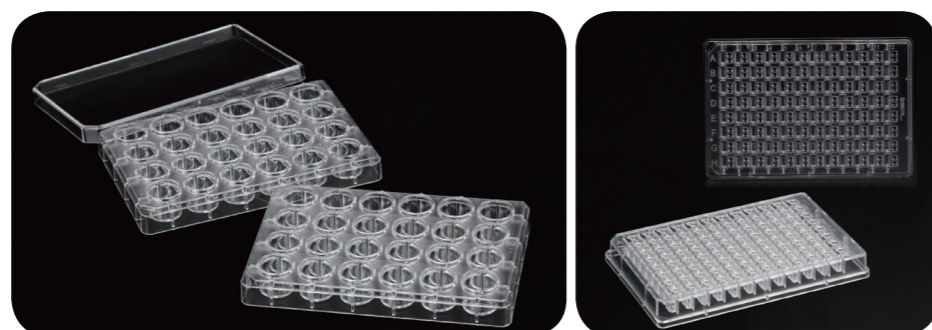
SPLPro-Crystal™ Plate are two different types of techniques within this category: hanging drop and sitting drop methods. Both of them consist of having a drop with protein solution situated either on top (hanging drop) or next to (sitting drop) a reservoir containing precipitant (e.g. a concentrated salt solution). As the water from the protein solution vaporizes, it transfers to the reservoir and crystallization occurs.

SPLPro-Crystal™ Plate

The SPLPro-Crystal™ Plate is a 24well hanging drop type that improves sealing and convenience to easily make many crystals. In addition, it is produced in SBS format to be used in automation equipment.

- 24well format (Cat.No. 334624, 334724)
- 96well format (Cat.No. 334696)

- Individually packaged
- Stackable
- Optically clear
- Lid provided with each well plate
- SBS standard format
- With sealant (Cat. No. 334724)



SPLPro-Crystal™ Plate

Type	Cat. No.	Type	Material	Dimensions w x l x h (mm)	Well Size (mm)	Reservoir well vol. (μl)	Drop well vol. (μl)	Sealant	Packaging
	334624	Hanging	PS	127.6 x 85.4 x 15.3	18.00	2,000.00	-	-	1 / 10
	334724	Hanging	PS	127.6 x 85.4 x 15.3	18.00	2,000.00	-	+	1 / 10
	334696	Sitting	PS	127.5 x 85.3 x 14.4	7.55 x 6.65	100.00	0.10 - 5.00	-	1 / 10

SPLPro-Crystal™ Coverslip

The material used for the SPLPro-Crystal™ Coverslip is a UV film developed by SPL Life Sciences and has the conditions suitable for protein crystals and high magnification microscopy.

- Diameter: 18.00 mm
- Flexible
- Thickness 0.19 mm
- Certified for low background and consistent performance at UV

SPLPro-Crystal™ Coverslip

Type	Cat. No.	Material	External Dimensions (mm)	Thickness (mm)	Packaging
	20118	UVMax™ Film	18.00	0.19	50 / 200



2-4. Accessories

SPL SEAL™

SPL SEAL™ provides a highly effective seal, preventing evaporation and eliminating contamination and it is intended for use in general assays, genomics, compound, library, storage, bio-analytical assays, High-Throughput Screening (HTS) and drug discovery applications.

- Prevent evaporation and cross-contamination between wells
- Film clarity allows for optical analysis during real-time PCR
- Pre-cut, plate-sized sheets
- Non-sterile
- Working temperature range: -70°C to 100°C
- Thickness: 65 μm
- Good optical property (low auto-fluorescence, high transparency)
- Non-sterile
- DNase / RNase-free



SPL SEAL™

Type	Cat. No.	Material	External Dimensions w x l (mm)	Color	Sterile	Packaging
	96000	PET / acrylate	143.00 x 79.00	Clear	-	100

SPL Lid

SPL Lid universally applicable to all SPL plates, including Cell Culture Plates and Immunoplates. The Lid, made of rigid polystyrene, prevent vaporization and contamination during assay processing, incubation or storage with SPL plates.

- Effective gas exchange lid inner design
- Prevent vaporization and contamination
- All plate type (Cat. No. 35001, 35101)
- 96well plate type (Cat. No. 35096, 35196)
- Non-pyrogenic
- Non-cytotoxic
- DNase / RNase-free
- Human DNA-free



SPL Lid

Type	Cat. No.	Material	External Dimensions w x l x h (mm)	Plate Type	Sterile	Packaging
	35001	PS	84.50 x 126.50 x 9.00	All	-	25 / 100
	35101	PS	84.50 x 126.50 x 9.00	All	+	25 / 100
	35096	PS	84.90 x 127.10 x 9.00	96	-	25 / 100
	35196	PS	84.90 x 127.10 x 9.00	96	+	25 / 100



Contents

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03

Microbiology

SPL Life Sciences provides products that are feasible to all applications in microbiology, including dishes/plates for solid culture, and flasks for suspension culture. We offer a wide range of culture vessels, i.e., growth area and volume. Some of our products contain grids on the bottom to indicate the precise location of microbiological samples within the device. Also, accessories are available to assist culturing of microorganisms while preventing possible sources of contamination.

Our products are made of optically clear Polystyrene (PS) and Polycarbonate (PC) to allow precise observation of samples. PC especially has higher physical and chemical resistance. SPL Life Sciences products undergo strict sterilization process to completely remove potential presence of any unwanted microorganisms, and in turn increase the reliability of your experimental results.

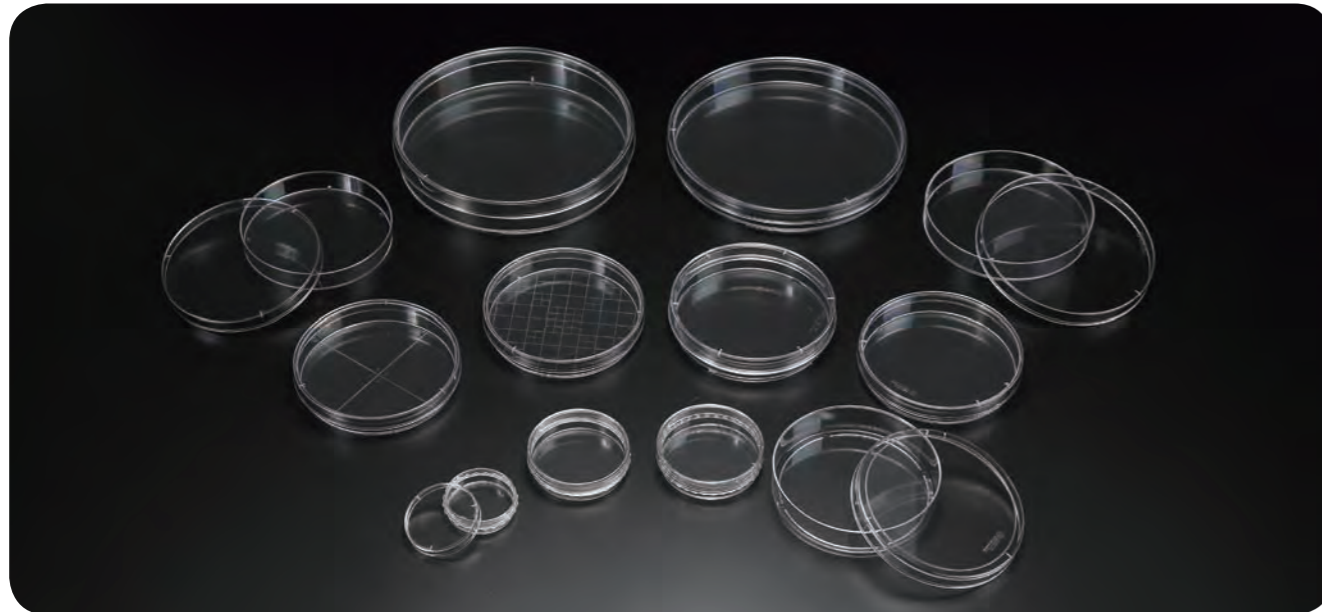


3-1. Dishes & Vessels

Petri Dish

SPL Life Sciences provides a large range (35 mm to 150 mm) of Petri Dishes for various laboratory purposes. All Petri Dishes are made with high quality polystyrene.

- Crystal grade Polystyrene
- Double packaging with 10090 (Cat. No. 10093)
- External grip for handling (Cat. No. 10035, 10050, 10060, 10101)
- Gridded bottom for counting (Cat. No. 10095, 10096)

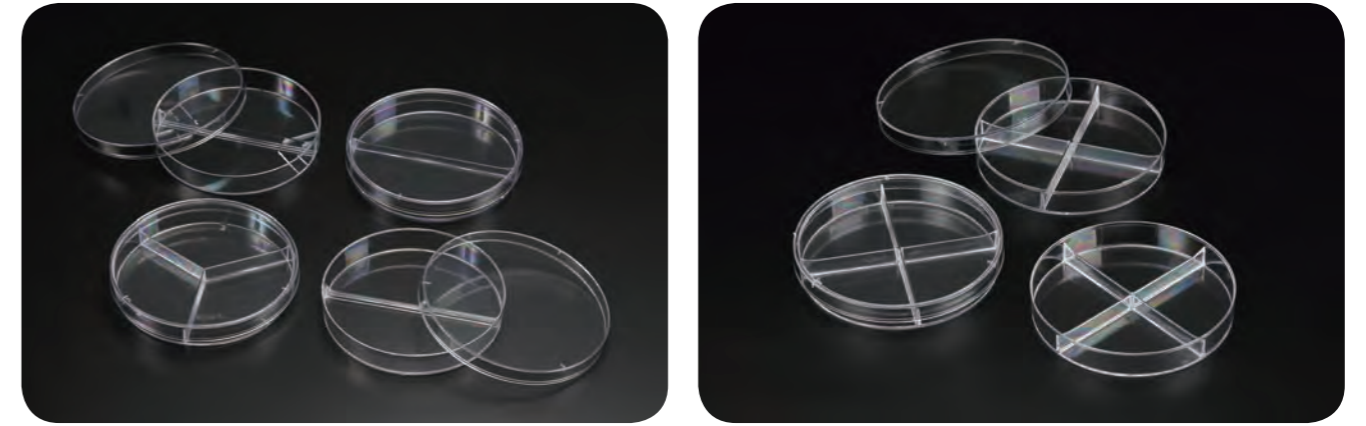


Petri Dish

Type	Cat. No.	Dish Style d x h (mm)	Internal Dimensions d x h (mm)	Growth Area (cm ²)	External Grip	Sterile	Packaging
○	10035	35.00 x 10.00	35.00 x 9.60	9.40	+	+	20 / 500
○	10050	50.00 x 15.00 (Non-Air vent)	48.76 x 11.80	19.60	+	+	20 / 500
○	10060	60.00 x 15.00	52.80 x 12.80	21.50	+	+	20 / 500
○	10090	90.00 x 15.00	85.90 x 12.60	57.50	-	+	10 / 500
○	10091	90.00 x 20.00	86.20 x 17.70	58.00	-	+	10 / 200
○	10093	90.00 x 15.00	85.90 x 12.60	57.50	-	+	10 / 500
⊙	10095	90.00 x 15.00 (Grid)	85.72 x 12.64	57.50	-	+	10 / 200
⊕	10096	90.00 x 15.00 (Quadrant Grid)	85.72 x 12.64	57.50	-	+	10 / 500
○	10100	100.00 x 15.00	96.40 x 13.75	72.30	-	+	10 / 500
○	10101	90.00 x 20.00	87.48 x 16.40	60.80	+	+	10 / 200
○	10150	150.00 x 20.00	138.50 x 15.40	148.00	-	+	10 / 120
○	10151	150.00 x 25.00	138.57 x 23.30	148.00	-	+	5 / 120

Partition Petri Dish

Partition Petri Dishes are designed for experiments that require multiple cells or medium types in a single dish. SPL Life Sciences provides 2-zoned Bi-Petri Dishes, 3-zoned Tri-Petri Dishes and 4-zoned Quad-Petri Dishes to meet various needs. All products are sterilized and ready to use.



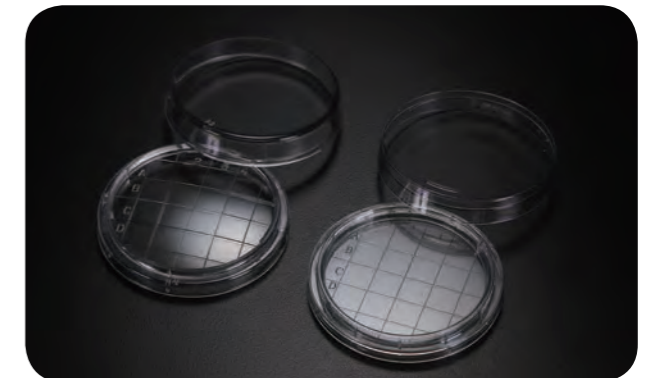
Partition Petri Dish

Type	Cat. No.	Dish Style d x h (mm)	Internal Dimensions d x h (mm)	Partition Height (mm)	Growth Area (cm ²)	External Grip	Sterile	Packaging
⊖	10092	90.00 x 15.00	85.90 x 12.60	2.70	28.84	-	+	20 / 500
⊖	10192	90.00 x 15.00	85.90 x 12.60	5.00	28.84	-	+	20 / 500
⊖	10292	90.00 x 15.00	85.90 x 12.60	7.00	28.84	-	+	20 / 500
⊖	10094	90.00 x 15.00	85.90 x 12.60	8.00	19.16	-	+	20 / 500
⊖	10097	90.00 x 15.00	85.90 x 12.60	8.00	14.37	-	+	10 / 500

RODAC Plate

SPL Life Sciences provides RODAC (Replicate Organism Detection and Counting) plates for monitoring surface contamination for various purposes. Plates are made with high-quality polystyrene.

- Gridded and convex bottom ensures direct contact occurs between medium surface and the test surface while sampling (Cat. No. 10061)
- Gridded and flat bottom (Cat. No. 10063)



RODAC Plate

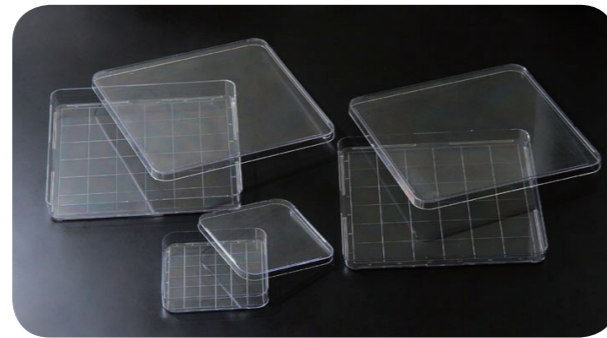
Type	Cat. No.	Bottom Type	Dish Style d x h (mm)	Internal Dimensions d x h (mm)	Growth Area (cm ²)	External Grip	Sterile	Packaging
⊕	10061	Convex	60.00 x 16.70	57.40 x 9.50	21.50	-	+	20 / 500
⊕	10063	Flat	59.50 x 15.80	54.90 x 8.50	21.50	-	+	20 / 500

Dishes & Vessels

Square Dish

Square Dishes have been widely used for microbiology applications, such as colony tracing and picking. Our Square Dished with large surface areas and gridded bottoms are useful for tracing the location of individual colony.

- Ideal for colony formation and enhancing plating efficiency
- Useful for colony counting or picking



Square Dish							
Type	Cat. No.	Material	External Dimensions w x l x h (mm)	Internal Dimensions w x l x h (mm)	Growth Area (cm ²)	Sterile	Packaging
	11125	PS	126.40 x 126.40 x 20.00	118.70 x 118.70 x 11.60	139.00	+	10 / 240
	10245	PS	243.00 x 243.00 x 19.30	227.50 x 227.50 x 13.20	500.00	+	5 / 20
	11245	PS	243.00 x 243.00 x 27.30	227.50 x 227.50 x 21.20	500.00	+	5 / 20

Tray Plate

The rectangular tray dishes provide larger surface area to ensure easy handling compared to round dishes for microbiological applications. The external dimensions of Tray Plates are identical to those of standard cell culture plates for broader application.



Tray Plate							
Type	Cat. No.	Material	External Dimensions w x l x h (mm)	Well Dimensions w x l x h (mm)	Growth Area (cm ²)	Sterile	Packaging
	31001	PS	127.94 x 85.50 x 16.25	105.47 x 69.46 x 11.60	73.26	+	10 / 100

Dishes & Vessels

Erlenmeyer Flask

Erlenmeyer Flasks are most widely used in microbiology for the preparation of microbial suspension culture. The shape of the flask allows stable swirling for effective mixing of solutions. SPL Life Sciences provides Erlenmeyer flask in four different volumes, which are all sterilized before the release.

- Suitable for suspension cultures (animal cells, bacteria, fungi, plant callus, etc.)
- Require shaking apparatus (optimization of cell seeding density and working volume is recommended, depending on the type of cell)
- Plugs & filter caps are available for all flask types
- Non-treated
- Durable & transparent polycarbonate
- Autoclavable
- Non-pyrogenic
- Non-cytotoxic
- DNase / RNase-free
- Human DNA-free

Erlenmeyer Flask						
Type	Cat. No.	Material (Body / Cap)	Cap Type	Total Vol. (ml)	Sterile	Packaging
	73250	PC / PP	Plug	250.00	+	1 / 8
	74250	PC / PP	Filter	250.00	+	1 / 8
	75250	PC / PP	Plug	250.00	-	1 / 8
	76250	PC / PP	Filter	250.00	-	1 / 8
	73500	PC / PP	Plug	500.00	+	1 / 8
	74500	PC / PP	Filter	500.00	+	1 / 8
	75500	PC / PP	Plug	500.00	-	1 / 8
	76500	PC / PP	Filter	500.00	-	1 / 8
	73000	PC / PP	Plug	1,000.00	+	1 / 4
	74000	PC / PP	Filter	1,000.00	+	1 / 4
	75000	PC / PP	Plug	1,000.00	-	1 / 4
	76000	PC / PP	Filter	1,000.00	-	1 / 4
	73002	PC / PP	Plug	2,000.00	+	1 / 6
	74002	PC / PP	Filter	2,000.00	+	1 / 6
	75002	PC / PP	Plug	2,000.00	-	1 / 6
	76002	PC / PP	Filter	2,000.00	-	1 / 6



Plug Cap



Filter Cap

Microbiology

01_Cell Culture | 02_Morecular Analysis | 03_Microbiology | 04_Handling & Storage | 05_Plant & Insect Culture | 06_Clinical Labware | 07_Appendix

Bacteria Culture Tube

Bacteria Culture Tubes are designed to incubate pathogenic microbial cells. During cultivation of pathogenic microorganisms, researchers can handle the tube while protecting the sample from infectious contamination. Culture tubes are sterilized after complete packaging to eliminate contamination. The air through the culture tube can be filtered by 0.22 µm syringe filter on the center of the tube cap.

- Sampling of the culture supernatant can be performed without infection during the incubation of pathogenic microbial cells such as *Mycobacterium tuberculosis*, etc.
- Syringe filter is mounted on the cap to minimize contamination from pathogenic microorganisms.
- 15 / 50 ml conical tube size
- Suitable for shaking incubation



Bacteria Culture Tube

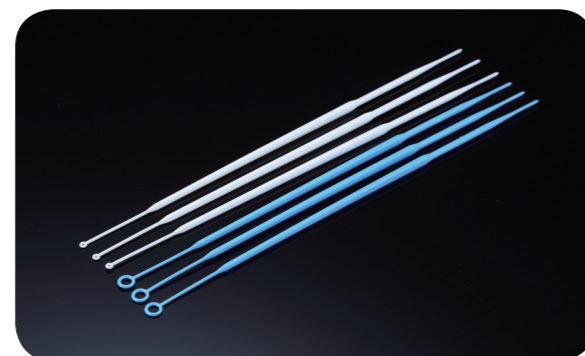
Type	Cat. No.	Material (Tube / Cap / Filter)	Cap Type	External Dimensions d x h (mm)	Total Vol. (ml)	Sterile	Packaging
	59015	PP / HDPE / PVDF	Filter	17.00 x 140.50	15.00	+	5 / 50
	59050	PP / HDPE / MCE	Filter	30.00 x 137.90	50.00	+	5 / 50

3-2. Accessories

Loop & Needle

Disposable Loop and Needle consists of a loop on one side and a needle on the other, used for the inoculation of microorganisms. Two different sizes are available.

- Suitable for microbe inoculation
- Dual purpose: a loop on one end and a needle on the other
- Color coded for sizes (White for 1 µl, Blue for 10 µl)
- DNase / RNase-free
- Human DNA-free



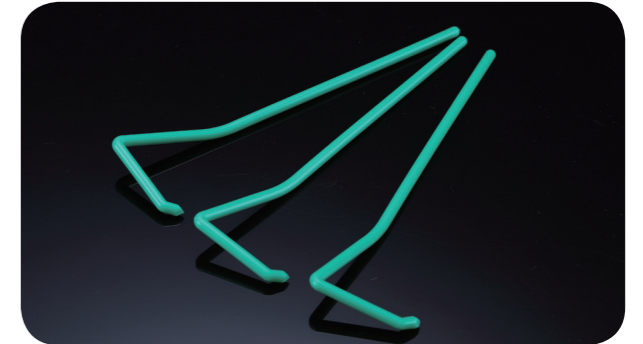
Loop & Needle

Type	Cat. No.	Material	Size (µl)	Length (mm)	Sterile	Packaging
	90001	PP	1.00	195.00	+	10 / 500
	90010	PP	10.00	195.00	+	10 / 500

Spreader

Disposable spreader is used for spreading microorganisms, which is sterilized before the release.

- Suitable for spreading of microbe samples
- Autoclavable
- DNase / RNase-free
- Human DNA-free



Spreader

Type	Cat. No.	Material	Sterile	Packaging
	90050	PP	+	10 / 500

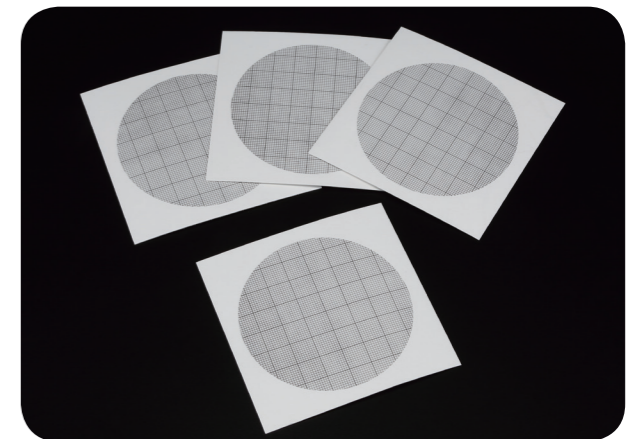
Grid Sticker

SPL Life Sciences has released Grid stickers as an exclusive accessory for use with petri dish.

The sticker is made of transparent label and can be attached swiftly and neatly to the bottom of petri dish.

It is designed as 1 mm- and 10 mm- interval grid pattern, and can be applied to various experiments, including colony counting, plant growth measurement, and clear zone measurement for fungal test.

- For 90 - 100 mm Petri dish
- Thickness: 70 µm
- Labels remain firmly attached at temp. from 4 to 40°C



Grid Sticker

Type	Cat. No.	Material	Dimension (mm)	Major Grid (mm)	Minor Grid (mm)	Packaging
	90100	Tetron	76.25	10.00	1.00	100 / 200



04

Handling & Storage

Most biological samples and reagents should be stored and maintained in the proper condition. SPL provides handling and storage tools that are durable in all possible conditions.

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4-1. Liquid Handling

A small difference in liquid quantity may result in experimental values that are significantly different, and thus precise handling of liquids is crucial to obtaining reliable and reproducible results. SPL Life Sciences is confident in providing high precision, world-leading quality serological pipettes and tips in various configurations.

Serological Pipette

SPL Serological Pipettes are classified by sample volume. Ascending & descending graduations facilitate the reading of both dispensing and remaining volume.

- Six different volumes
- Color-coded for easy identification
- Various packaging methods
- Cuttingtop Pipette for viscous liquid handling (Cat. No. 91110)
- Non-pyrogenic
- Non-cytotoxic
- DNase / RNase-free
- Human DNA-free



Individual Packaging - Inbox

Type	Cat. No.	Material	Color Code	Working Vol. (ml)	Sterile	Packaging
	91001	PS	Yellow	1.00	+	1 / 200 / 800
	91002	PS	Green	2.00	+	1 / 150 / 600
	91005	PS	Blue	5.00	+	1 / 100 / 400
	91010	PS	Orange	10.00	+	1 / 100 / 400
	91025	PS	Red	25.00	+	1 / 50 / 200
	91050	PS	Purple	50.00	+	1 / 40 / 160

Individual Packaging - Bulk

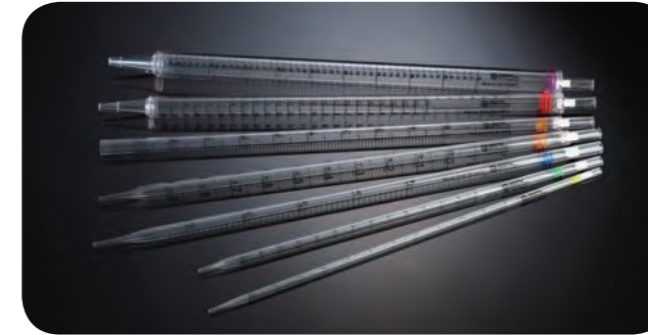
	95001	PS	Yellow	1.00	+	1 / 200 / 800
	95002	PS	Green	2.00	+	1 / 150 / 600
	95005	PS	Blue	5.00	+	1 / 100 / 400
	95010	PS	Orange	10.00	+	1 / 100 / 400
	95025	PS	Red	25.00	+	1 / 50 / 200
	95050	PS	Purple	50.00	+	1 / 40 / 160

Bulk Packaging

	93001	PS	Yellow	1.00	+	50 / 1,000
	93002	PS	Green	2.00	+	50 / 1,000
	93005	PS	Blue	5.00	+	50 / 500
	93010	PS	Orange	10.00	+	50 / 500
	93025	PS	Red	25.00	+	25 / 200
	93050	PS	Purple	50.00	+	25 / 200

Cuttingtop Pipette

	91110	PS	Orange	10.00	+	1 / 100 / 400
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Serological Pipette



Individual packing



Bulk packaging



Cat. No. 93010, 91110

Aspiration Pipette

SPL Aspiration Pipettes are useful for rapidly collecting and releasing liquid samples.

- No graduations
- No plugs
- Non-pyrogenic
- Non-cytotoxic
- DNase / RNase-free
- Human DNA-free



Aspiration Pipette

Type	Cat. No.	Material	Working Vol. (ml)	Sterile	Packaging
	94001	PS	1.00	+	1 / 200 / 800
	94002	PS	2.00	+	1 / 150 / 600
	94005	PS	5.00	+	1 / 100 / 400
	94010	PS	10.00	+	1 / 100 / 400

Micropipette Tip

SPL Micropipette Tips are classified by sample volume and types. They are designed to fit in wide range of single and multi-channel pipettes.

- Diverse product range
- Excellent compatibility
- Easily distinguished by color
- Reduces chances of making errors
- Extra-long design (Cat. No. 92020, 92023, 92021, 92022, 92024)
- Autoclavable
- Non-pyrogenic
- Non-cytotoxic
- DNase / RNase-free
- Human DNA-free



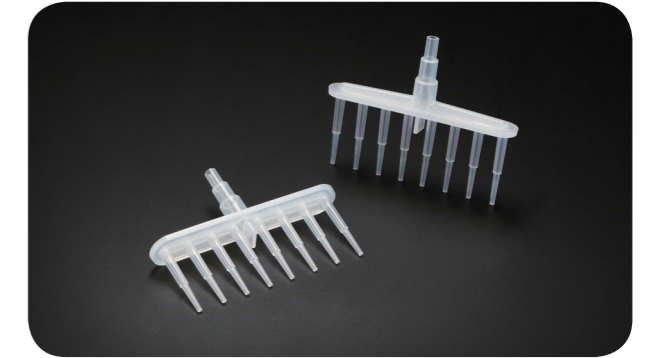
Micropipette Tip

Type	Cat. No.	Type	Color	Vol. (µl)	Sterile	Packaging
	92010	Bulk Tip	Clear	0.50 – 10.00	-	1,000 / bag, 40 bags / box
	92200	Bulk Tip	Yellow	20.00 – 200.00	-	1,000 / bag, 20 bags / box
	92000	Bulk Tip	Blue	100.00 – 1,000.00	-	1,000 / bag, 10 bags / box
	92020	Bulk Tip	Clear	100.00 – 1,000.00	-	500 / bag, 20 bags / box
	92013	Tip in Rack	Clear	0.50 – 10.00	+	96 tips / rack, 100 racks / box
	92203	Tip in Rack	Yellow	20.00 – 200.00	+	96 tips / rack, 100 racks / box
	92003	Tip in Rack	Blue	100.00 – 1,000.00	+	96 tips / rack, 60 racks / box
	92023	Tip in Rack	Clear	100.00 – 1,000.00	+	96 tips / rack, 60 racks / box
	92011	Filter Tip in Rack	Clear	0.50 – 10.00	+	96 filter tips / rack, 100 racks / box
	92201	Filter Tip in Rack	Clear	20.00 – 200.00	+	96 filter tips / rack, 100 racks / box
	92001	Filter Tip in Rack	Clear	100.00 – 1,000.00	+	96 filter tips / rack, 60 racks / box
	92021	Filter Tip in Rack	Clear	100.00 – 1,000.00	+	96 filter tips / rack, 60 racks / box
	92012	Refill Tip	Clear	0.50 – 10.00	+	960 tips / pack, 10 packs / box
	92202	Refill Tip	Yellow	20.00 – 200.00	+	960 tips / pack, 10 packs / box
	92002	Refill Tip	Blue	100.00 – 1,000.00	+	480 tips / pack, 10 packs / box
	92022	Refill Tip	Clear	100.00 – 1,000.00	+	576 tips / pack, 10 packs / box
	92014	Rack		0.50 – 10.00	-	100 racks / box
	92204	Rack		20.00 – 200.00	-	100 racks / box
	92004	Rack		100.00 – 1,000.00	-	60 racks / box
	92024	Rack		100.00 – 1,000.00	-	60 racks / box

Q-Suction 8-Tip

Vacuum suction pumps are generally used to aspirate liquids such as media from cell cultures or supernatant. The Q-Suction 8-Tip fits on the vacuum pump tubing so that it can be used to remove media and solutions from 8 wells simultaneously on the 96 or 384 well plates for ELISA, HLA, Tissue Typing, and other applications.

- Disposable
- Sterilized (Cat. No. 92108, 92208)
- Individually packaged (Cat. No. 92108, 92208)
- Non-cytotoxic
- Non-pyrogenic
- DNase / RNase-free
- Human DNA-free



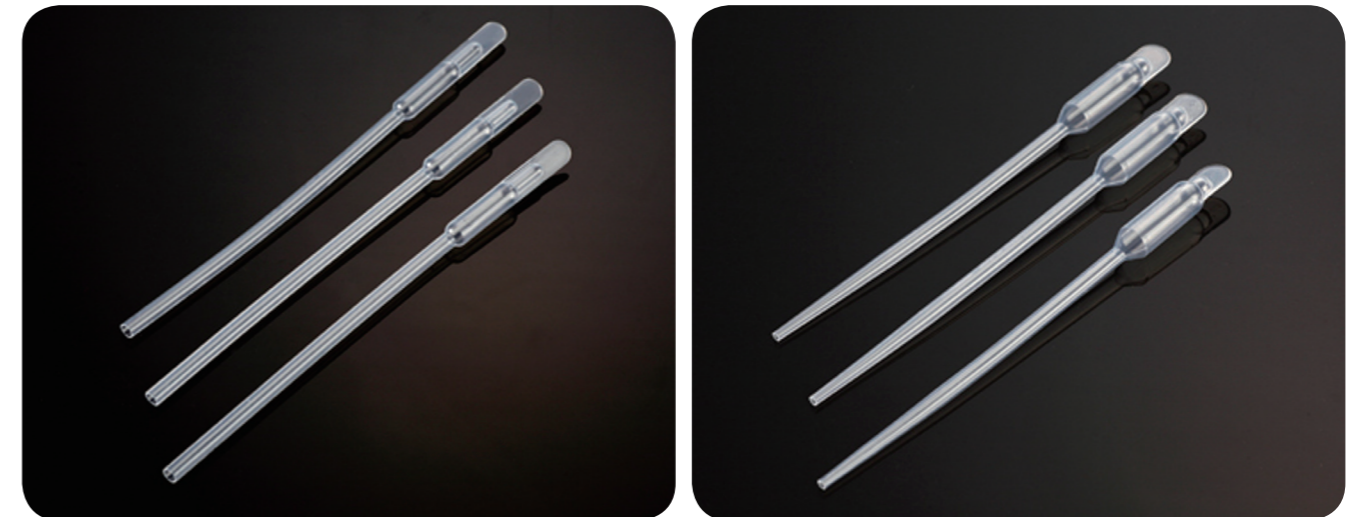
Q-Suction 8-Tip

Type	Cat. No.	Material	Dimensions w x l x h (mm)	Sterile	Packaging
	92108	PP	72.9 x 13.7 x 56.1	+	1 / 25
	92208	PP	72.9 x 13.7 x 56.1	+	1 / 50
	92308	PP	72.9 x 13.7 x 56.1	-	50

Dropper

SPL Droppers are designed for handling of liquid samples and reagents for general research.

- Suitable for rapidly dividing and transporting liquid samples



Dropper

Type	Cat. No.	Material	Total Length (mm)	Total Vol. (ml)	Sterile	Packaging
	410501	PE	136.30	1.00	-	200 / 12,000
	410502	PE	138.17	3.00	-	500 / 9,000

4-2. Tubes

Most biological samples and reagents should be stored and maintained in appropriate conditions depending on the purpose of your experiments. Our products are not solely designed to store your liquid samples, but to provide extra features useful in experiments, such as centrifugation-feasibility and light shielding function. Therefore, choosing appropriate tubes or bottles will allow you to store your liquid samples and conduct experiments accordingly.

Conical Tube

Conical Tubes are widely used in laboratories for various purposes, including but not limited to storing samples and conducting high-speed centrifugation. SPL Life Sciences provides high-strength, non-toxic conical tubes to meet the demands of customers.

Amber Conical Tubes are suitable for handling and storing light-sensitive samples. Materials used for Amber Conical Tubes significantly decrease light transmission over the visible wavelength spectrum compared to those of clear polypropylene tubes

- Tight sealing screw cap
- External graduations with marking area
- Packed in zipper bags
- Polystyrene (transparent), conical tubes (Cat. No. 51015, 51115, 51150)
- Skirted, self-standing type (Cat. No. 50250)
- For high speed centrifugation (Cat. No. 50040)
- Provided in rack (Cat. No. 50115, 50150, 51150)
- Amber type (Cat. No. 54015, 54115, 54050, 54150)
- Non-pyrogenic
- Non-cytotoxic
- DNase / RNase-free
- Human DNA-free

Conical Tube - In sleeves

Type	Cat. No.	Bottom Type	Material (Tube / Cap)	External Dimensions d x h (mm)	Total Vol. (ml)	RCF Rating	Sterile	Packaging
	50015	Conical	PP / HDPE	17.00 x 120.00	15.00	13,000 x g	+	50 in sleeve / 500
	51015	Conical	PS / HDPE	17.00 x 120.00	15.00	3,000 x g	+	50 in sleeve / 500
	50050	Conical	PP / HDPE	30.00 x 115.00	50.00	14,000 x g	+	25 in sleeve / 500
	50250	Skirted	PP / HDPE	30.00 x 116.00	50.00	-	+	25 in sleeve / 500
	50040	Conical	PP / HDPE	30.00 x 115.00	40.00	35,000 x g	+	10 in sleeve / 100

Conical Tube - In racks

	50115	Conical	PP / HDPE	17.00 x 120.00	15.00	13,000 x g	+	25 in rack / 500
	51115	Conical	PS / HDPE	17.00 x 120.00	15.00	3,000 x g	+	25 in rack / 500
	50150	Conical	PP / HDPE	30.00 x 115.00	50.00	14,000 x g	+	25 in rack / 300
	51150	Conical	PS / HDPE	30.00 x 115.00	50.00	3,000 x g	+	25 in rack / 300

Amber Conical Tube

	54015	Conical	PP / HDPE	17.00 x 120.00	15.00	13,000 x g	+	50 in sleeve / 500
	54115	Conical	PP / HDPE	17.00 x 120.00	15.00	13,000 x g	+	50 in sleeve / 200
	54050	Conical	PP / HDPE	30.00 x 115.00	50.00	14,000 x g	+	25 in sleeve / 500
	54150	Conical	PP / HDPE	30.00 x 115.00	50.00	14,000 x g	+	25 in sleeve / 200



Cat. No. 50050



Cat. No. 50250, 50040



Cat. No. 50015, 51015

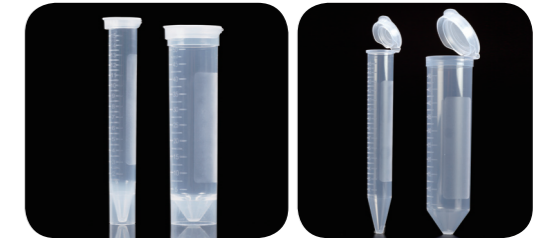


Cat. No. 54015, 54050

Snap Tube

Snap Tubes are widely used in laboratories for various reasons, from simply storing samples to conducting high-speed centrifugation. Snap Tubes are especially helpful for one can open and close the tube with just one hand.

- Snap cap with tight sealing
- 80% of the nominal volume
- External graduations with marking area
- Skirted, self-standing type (Cat. No. 50415, 50560)
- Provided in snap tube racks (Cat. No. 50315, 50550)
- Non-cytotoxic
- Non-pyrogenic
- DNase / RNase-free
- Human DNA-free



Snap Tube - In sleeves

Type	Cat. No.	Bottom Type	Material (Tube / Cap)	External Dimensions d x h (mm)	Total Vol. (ml)	RCF Rating	Sterile	Packaging
	50215	Conical	PP	16.00 x 120.00	15.00	5,500 x g	+	50 / 500
	50415	Skirted	PP	16.00 x 120.00	15.00	-	+	50 / 500
	50450	Conical	PP	28.00 x 116.00	50.00	9,000 x g	+	25 / 500
	50650	Skirted	PP	28.00 x 117.00	50.00	-	+	25 / 500

Snap Tube - In racks

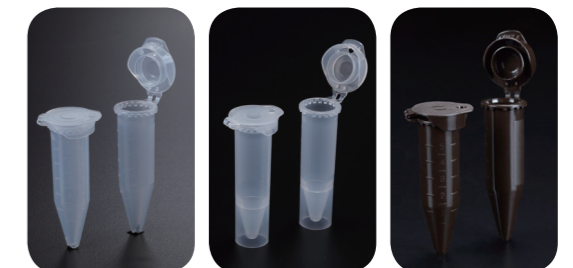
	50315	Conical	PP	16.00 x 120.00	15.00	5,500 x g	+	25 / 500
	50550	Conical	PP	28.00 x 116.00	50.00	9,000 x g	+	25 / 300

5 ml Snap Tube

5 ml Snap Tubes are widely used in laboratories for multiple purposes, from storage of samples to high speed centrifugation. Snap Tubes can assist users during experiments by enabling easy one-hand opening and closing of the tubes by providing snap type cap.

Amber 5 ml Snap Tubes are suitable for handling and storing light-sensitive samples. Materials used for Amber 5 ml Snap Tubes significantly decrease light transmission over the visible wavelength spectrum compared to those of clear polypropylene tubes

- Snap cap with tight sealing
- External graduations with marking area
- Sterile (Cat. No. 50105, 55105, 54105)
- Skirted, self-standing type (Cat. No. 55005, 55105)
- Amber type (Cat. No. 54005, 54105)
- 5 ml Snap Tube Adapter for 15 ml rotor (Cat. No. 52005)
- Do not use on bottomless rotor
- Non-pyrogenic
- Non-cytotoxic
- DNase / RNase-free
- Human DNA-free



5 ml Snap Tube

Type	Cat. No.	Bottom Type	Material	External Dimensions d x h (mm)	Total Vol. (ml)	RCF Rating	Sterile	Packaging
	50005	Conical	PP	20.00 x 62.00	5.00	25,000 x g	-	100 in sleeve / 200
	50105	Conical	PP	20.00 x 62.00	5.00	25,000 x g	+	100 in sleeve / 200
	55005	Skirted	PP	20.00 x 63.30	5.00	-	-	100 in sleeve / 200
	55105	Skirted	PP	20.00 x 63.30	5.00	-	+	100 in sleeve / 200

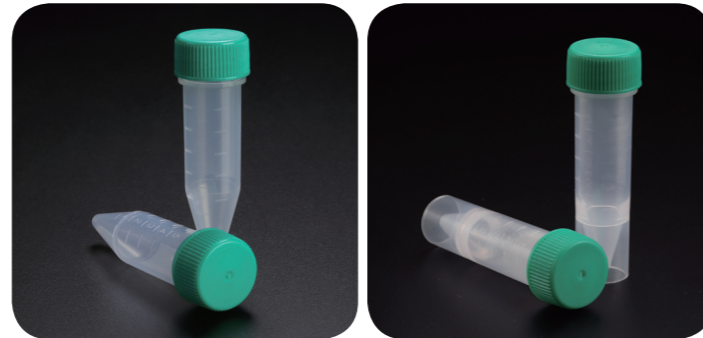
Amber 5 ml Snap Tube

	54005	PP	20.00 x 62.00	5.00	25,000 x g	-	100 / 200
	54105	PP	20.00 x 62.00	5.00	25,000 x g	+	100 / 200

5 ml Screw Tube

5 ml Screw Tube is ideal for experiments requiring larger sample volumes, between 1.5 ml and 5 ml. Screw type cap is sophisticatedly designed to prevent possible contamination, and to allow safe handling. 5 ml Screw Tube is applicable to centrifuge independently, and can also be inserted into its adapter for 15 ml rotor.

- Screw cap with tight sealing
- Imprinted external graduations with marking area
- Sterile (Cat. No. 51105, 53105)
- Non-cytotoxic
- Non-pyrogenic
- DNase / RNase-free
- Human DNA-free



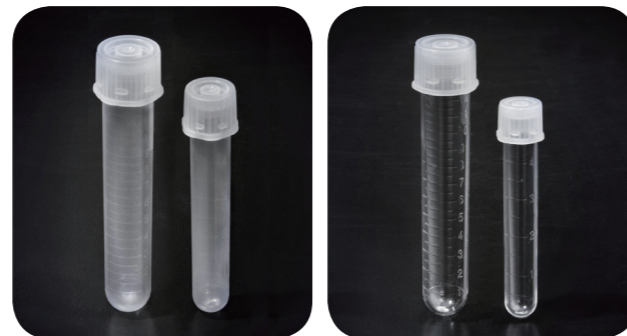
5 ml Screw Tube

Type	Cat. No.	Type	Material (Tube / Cap)	External Dimensions d x h (mm)	Total Vol. (ml)	RCF Rating	Sterile	Packaging
	51005	Conical	PP / HDPE	16.00 x 66.00	5.00	25,000 x g	-	100 in sleeve / 200
	51105	Conical	PP / HDPE	16.00 x 66.00	5.00	25,000 x g	+	100 in sleeve / 200
	53005	Skirted	PP / HDPE	16.00 x 69.10	5.00	-	-	100 in sleeve / 200
	53105	Skirted	PP / HDPE	16.00 x 69.10	5.00	-	+	100 in sleeve / 200

Test Tube

SPL Life Sciences provides a wide range of Test Tubes to meet Various demands. Tubes are differentiated by volume, material or sterilization method.

- Volumes: 5 or 14 ml
- Internal graduations
- Dual-position snap cap for easy handling
- No cap, non-sterile, for flow cytometry (Cat. No. 40205)
- Sterilized by E.O. gas (Cat. No. 40005, 40014, 41005, 41014)
- Irradiated by Gamma (Cat. No. 40105)
- Translucent polypropylene tubes with high chemical and thermal stability (Cat. No. 41005, 41014)
- Non-cytotoxic
- Non-pyrogenic
- DNase / RNase-free
- Human DNA-free



Cat. No. 41014, 41005

Cat. No. 40114, 40105

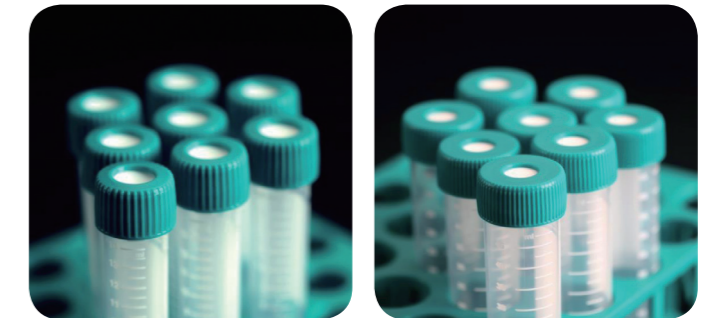
Test Tube

Type	Cat. No.	Material (Tube / Cap)	Total Vol. (ml)	External Dimensions d x h (mm)	RCF Rating	Sterile	Packaging
	40005	PS / LDPE	5.00	12.00 x 75.00	1,400 x g	E.O.	25 / 500
	40105	PS / LDPE	5.00	12.00 x 75.00	1,400 x g	Irradiation	25 / 500
	41005	PP / LDPE	5.00	12.00 x 75.00	3,000 x g	E.O.	25 / 500
	40205	PS	5.00	12.00 x 75.00	1,400 x g	-	100 / 1,000
	40014	PS / LDPE	14.00	17.00 x 95.40	1,400 x g	E.O.	25 / 500
	40114	PS / LDPE	14.00	17.00 x 95.40	1,400 x g	E-Beam	25 / 500
	41014	PP / LDPE	14.00	17.00 x 95.40	3,000 x g	E.O.	25 / 500

Septum Tube

SPL Life Sciences provides a new type of Conical Tube including highly resilient silicone septum in the center of the cap. Septum Tube is effective in completely blocking external contaminants because it is not necessary to open the cap to handle the sample. Silicone septum with PTFE coating is highly resistant to various solvents and fully recovers even repeated use of syringes.

- Tight sealing screw cap
- Silicone septum with PTFE coating
- External graduations with marking area
- Provided in rack
- Packed in zipper bags
- Non-pyrogenic
- Non-cytotoxic
- DNase / RNase-free
- Human DNA-free



Septum Tube

Type	Cat. No.	Material (Tube / Cap)	Septum Material	External Dimensions d x h (mm)	Total Vol. (ml)	RCF Rating	Sterile	Packaging
	50715	PP / HDPE	Silicone / PTFE	17.00 x 120.00	15.00	13,000 x g	+	25 in rack
	50750	PP / HDPE	Silicone / PTFE	30.00 x 115.00	50.00	14,000 x g	+	25 in rack

2 ml Vial

2 ml Vials are designed for the storage and transportation of biological material. Every screw cap has silicone O-ring seal to ensure leak proof, providing a smooth and uniform inner surface, thus reducing the risk of contamination.

- With unattached caps



2 ml Vial

Type	Cat. No.	Total Vol. (ml)	Material (Tube / Cap)	Bottom Type	Packaging
	45002	2.00	PP / HDPE	Skirted	500 / 2,000

1.5 ml Strip Tube

1.5 ml Strip Tube, available as six microcentrifuge tubes per strip, is ideal for any large-scale experiments.

The strips can be cut into individual tubes, and are universally applicable to centrifugation*.

* 1.5 ml Strip Tube may restrictedly compatible with rotors, depending on the types of rotor being used for centrifugation. Compatibility test is highly recommended. (Compatible with most 24-, 30-hole rotors, and few 18-hole rotors)

- Snap cap with tight sealing
- External graduations with marking area
- Central part in cap enough to be penetrated by syringe needle
- Autoclavable
- Non-pyrogenic
- Non-cytotoxic
- DNase / RNase-free
- Human DNA-free



1.5 ml Strip Tube

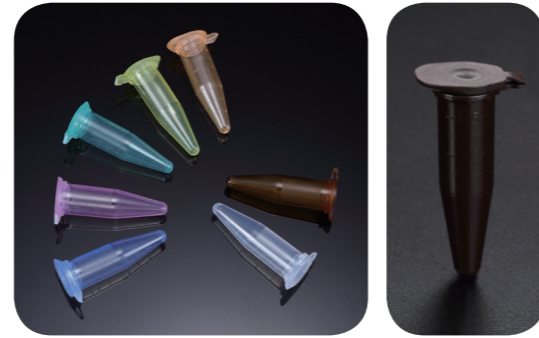
Type	Cat. No.	Material	Color	Total Vol. (ml)	RCF Rating	Sterile	Packaging
	60615	PP	Clear	1.50	30,000 x g	-	80 / 800
	60715	PP	Clear	1.50	30,000 x g	+	40 / 800

Microcentrifuge Tube

Smooth opening and tight sealing are unique features of SPL's Microcentrifuge Tubes. Microcentrifuge Tubes are produced with high-quality, high-strength polypropylene to fulfill various needs of applications in molecular biology.

SPL Microcentrifuge Tubes come in three sizes: 1.5 ml, 1.7 ml and 2.0 ml. These tubes not only differ in size but each tube also serves a distinct purpose. Please refer to the specific descriptions below to select the most appropriate Microcentrifuge Tubes for your use.

- External graduations with marking area
- Autoclavable
- Snap cap opens smoothly but seals tight
- Piercing port in the center of the cap is penetrable by syringe needles (1.5 ml, 2.0 ml)
- Has excellent visibility (1.7 ml)
- 5 colors: Blue, Green, Orange, Pink, Yellow (Cat. No. 61015, 61017)
- Amber Max offers more powerful light shielding. (Cat. No. 64015, 1.5 ml only)
- Non-pyrogenic
- Non-cytotoxic
- DNase / RNase-free
- Human DNA-free



Cat. No. 64015

Microcentrifuge Tube

Type	Cat. No.	Material	Color	Total Vol. (ml)	RCF Rating	Sterile	Packaging
	60015	PP	Clear	1.50	30,000 x g	-	500 / 1,000 / 5,000
	60115	PP	Clear	1.50	30,000 x g	+	250 / 1,000 / 5,000
	61015	PP	5 colors	1.50	30,000 x g	-	200 / 1,000 / 5,000
	62015	PP	Amber	1.50	30,000 x g	-	200 / 1,000 / 5,000
	64015	PP	Amber Max	1.50	30,000 x g	-	200 / 1,000
	60017	PP	Clear	1.70	25,000 x g	-	500 / 1,000 / 5,000
	60117	PP	Clear	1.70	25,000 x g	+	250 / 1,000 / 5,000
	61017	PP	5 colors	1.70	25,000 x g	-	200 / 1,000 / 5,000
	62017	PP	Amber	1.70	25,000 x g	-	500 / 1,000 / 5,000
	61020	PP	Clear	2.00	20,000 x g	-	500 / 1,000 / 5,000
	61120	PP	Clear	2.00	20,000 x g	+	250 / 1,000 / 5,000
	64020	PP	Amber Max	2.00	20,000 x g	-	200 / 1,000

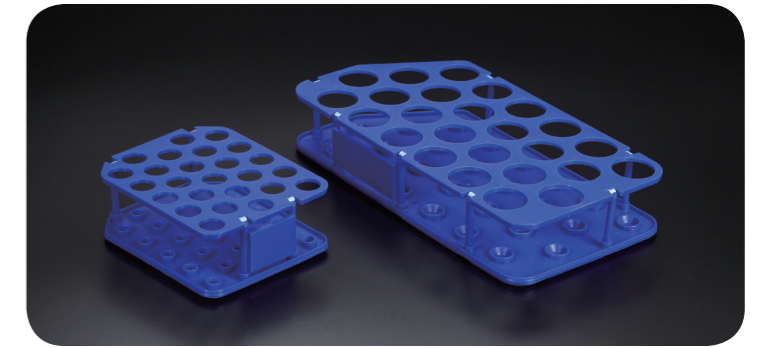
4-3. Racks & Boxes

SPL is also dedicated to developing and manufacturing various products for sample storage.

Conical Tube Rack I

SPL Conical Tube Rack I is economical and alternative solution for stainless wire racks or other plastic racks. Racks are uniquely designed for handling and storing 25 conical tubes (i.e., 15 ml or 50 ml).

- Excellent stackability
- Numeric labeling



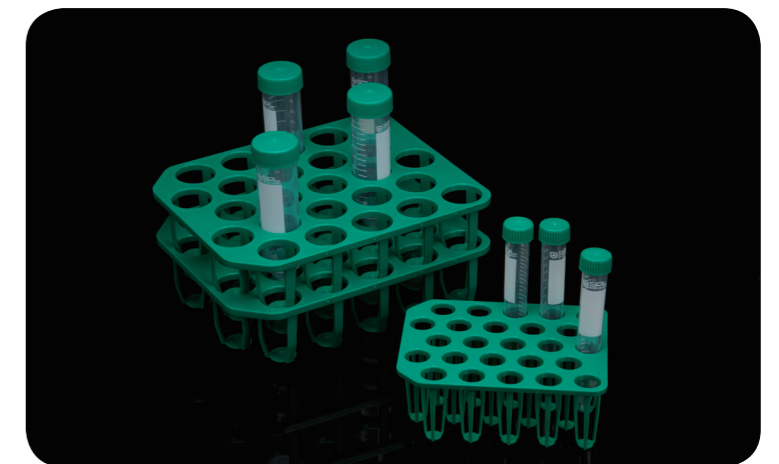
Conical Tube Rack I

Type	Cat. No.	Material	Description	Packaging
	52015	PP	25 Holes for 15 ml tubes	20
	52050	PP	25 Holes for 50 ml tubes	20

Conical Tube Rack II

SPL Conical Tube Rack II is economical and alternative solution for stainless wire racks or other plastic racks. Racks are ergonomically designed for easier handling and storing 25 conical tubes (i.e., 15 or 50 ml).

- Numeric labeling



Conical Tube Rack II

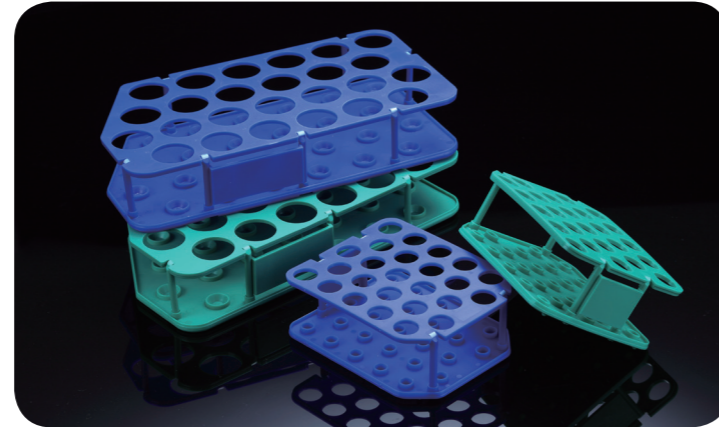
Type	Cat. No.	Material	Description	Packaging
	52115	PP	25 Holes for 15 ml tubes	20
	52150	PP	25 Holes for 50 ml tubes	20

Racks & Boxes

Snap Tube Rack

SPL Snap Tube Racks are designed identical to SPL Conical Tube Racks, with the exception of inner dimensions and enhanced structural integrity. The racks are uniquely designed for handling and storage of 25 snap tubes (i.e., 15 ml or 50 ml).

- Excellent stackability
- Numeric labeling
- 2 colors: Blue, Green

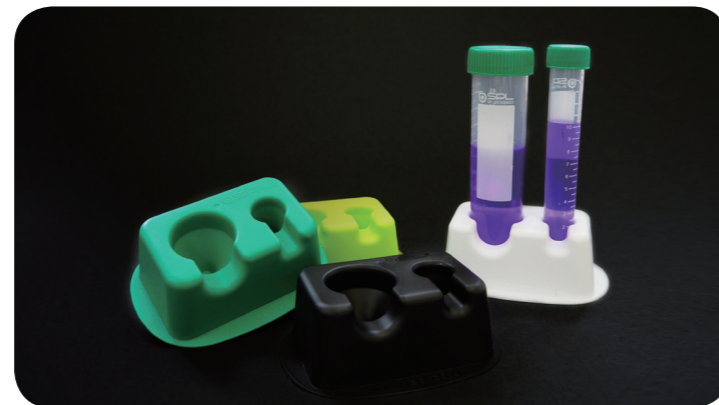



Snap Tube Rack				
Type	Cat. No.	Material	Description	Packaging
	53015	PP	25 Holes for 5 & 15 ml tubes	50
	53050	PP	25 Holes for 50 ml tubes	20

2well Conical Tube Rack

2well Conical Tube Racks maximize space with the flexibility to hold two type tubes (15 / 50 ml) in one configurable rack and they are also suitable for simple handling such as weighing.

- Hold 1 x 50 ml and 1 x 15 ml Conical Tubes
- Easy to grip by hand
- Slides smoothly across the bench top
- Assorted colors: Black, White, Lime and Green



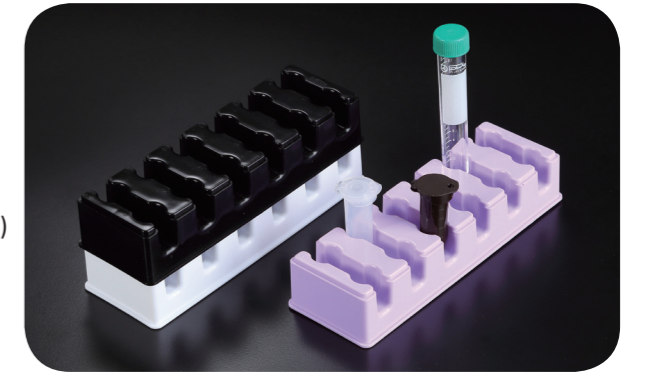
2well Conical Tube Rack					
Type	Cat. No.	Material	Color	Description	Packaging
	52202	PP	4 colors	2 Holes for 15 & 50 ml tubes	20


Racks & Boxes

5 ml Tube Rack

SPL 5 ml Tube Rack, which is designed for 5 ml centrifuge tubes, is specialized for easy viewing of tube contents. 5 ml Tube Rack is made of Polypropylene (PP) and provides high level of chemical and heat resistance. This rack will be also suitable to accommodate other size tubes with 15 ml Conical Tubes. SPL 5 ml Tube Rack stores up to 12 tubes for bench-top use, storage or transport of samples.

- Stores tubes in compact arrangement (2 x 6 array)
- Numeric positions for easy sample identification
- Assorted colors (White, Black, Purple)
- Autoclavable
- Stackable
- 5 ml Tube Rack is only available for conical type tubes (not for skirted)

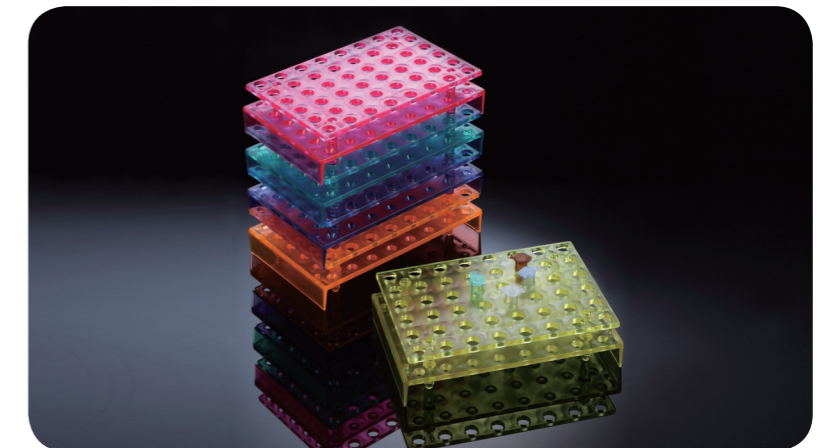


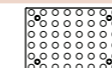
5 ml Tube Rack				
Type	Cat. No.	Material	Description	Packaging
	61012	PP	2 x 6 (12 Holes)	12

Stacker Microtube Rack

SPL Stacker Microtube Racks are uniquely designed for handling and storage of Microcentrifuge Tubes.

- Stackable feature for space saving
- 5 colors: Pink, Yellow, Green, Orange, Blue
- Non-autoclavable



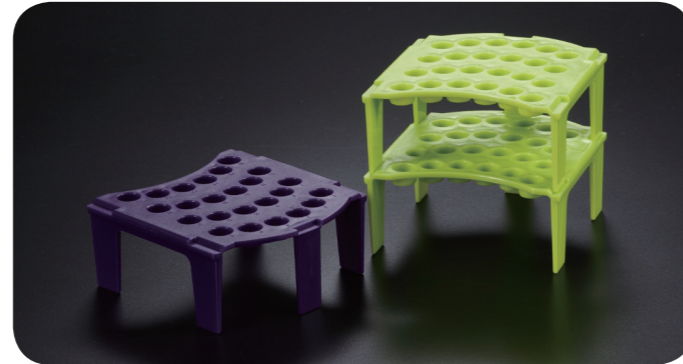
Stacker Microtube Rack				
Type	Cat. No.	Material	Description	Packaging
	61048	ABS	6 x 8 (48 Holes)	10

Racks & Boxes

1.5 ml Strip Tube Rack

1.5 ml arch-shaped Strip Tube Rack not only facilitates efficient storage and handling but also ensures test samples are easily observable and directly vortexing on the rack.

- Stackable feature for space saving
- 2 Colors: Green, Violet
- Non-autoclavable



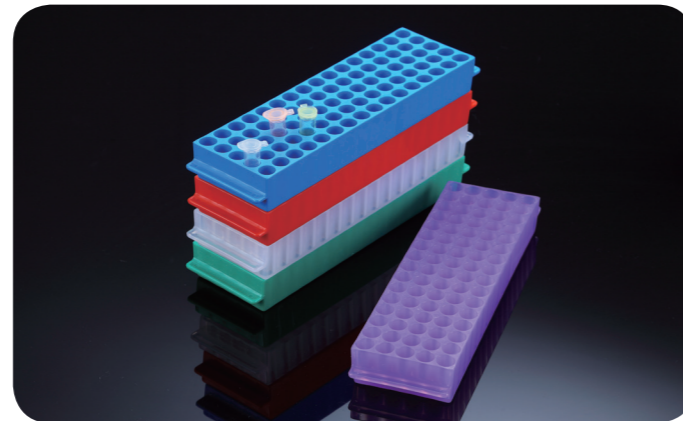
1.5 ml Strip Tube Rack

Type	Cat. No.	Material	Description	Packaging
	61024	PS	6 x 4 (24 Holes)	10

Microtube Rack

SPL Microtube Racks are designed for handling and storage of Microcentrifuge Tubes.

- Numeric labeling
- 5 colors: White, Blue, Green, Red, Purple
- Autoclavable



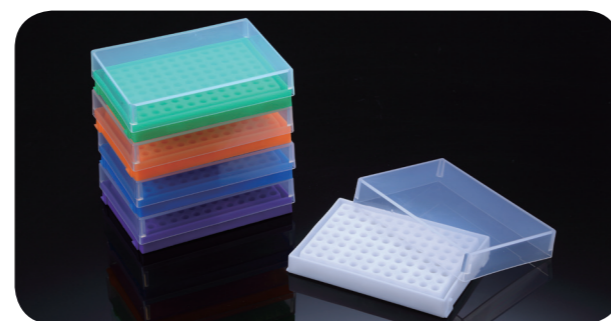
Microtube Rack

Type	Cat. No.	Material	Description	Packaging
	61080	PP	5 x 16 (80 Holes)	25

PCR Tube Rack

SPL PCR Tube Racks are specially designed to handle and store PCR Tubes or Strips.

- 5 colors: White, Blue, Green, Orange, Purple
- Autoclavable



PCR Tube Rack

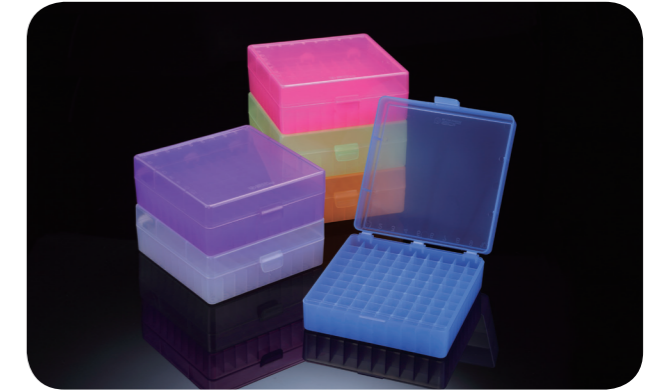
Type	Cat. No.	Material	Description	Packaging
	80096	PP	8 x 12 (96 Holes)	10

Racks & Boxes

Storage Box

SPL Storage Boxes are designed to hold microtubes and vials in a wide temperature ranges. Two different sizes are available for various purposes.

- Temperature range: -70°C to 140°C
- 5 colors: Blue, Green, Orange, Pink, Purple (Cat. No. 81100)
- Hinged lid type (Cat. No. 80100, 81100, 84100)
- Autoclavable
- Amber type (Cat. No. 84100)



Storage Box

Type	Cat. No.	Material	Description	Feature	Packaging
	80100	PP	Natural Color	10 x 10 (100 Holes)	30
	81100	PP	5 Colors	10 x 10 (100 Holes)	30
	84100	PP	Amber	10 x 10 (100 Holes)	6
	81081	PP	Natural Color	9 x 9 (81 Holes)	40

Conical Tube Storage Box

Conical Tube Storage Box can save the space when using refrigerators and deep freezers.

- Temperature range: -80°C ~ RT
- Moisture repellent coating Cardboard Box
- Cat. No. 80116: 50 ml Conical Tube, Snap Tubes are available
- Cat. No. 80136: 15 ml Conical Tube, Snap Tubes are available



Conical Tube Storage Box

Type	Cat. No.	Material	Feature	Description	Packaging
	80116	Cardboard	50 ml Tubes	4 x 4 (16 Holes)	12
	80136	Cardboard	15 ml Tubes	6 x 6 (36 Holes)	12

4-4. Bottles

Most biological samples and reagents should be stored and maintained in appropriate conditions depending on the purpose of your experiments. Our products are not solely designed to store your liquid samples, but to provide extra features useful in experiments, such as centrifugation-feasibility and light shielding function. Therefore, choosing appropriate tubes or bottles will allow you store your liquid samples and conduct experiments accordingly.

Wide-Mouth Bottle (HDPE)

SPL Wide-Mouth Bottles are durable bottles for storing and handling liquid / solid forms of samples and chemicals. Various sizes are available.

- Volumes range from 20 to 500 ml
- 250 ml bottles are applicable for centrifugation (RCF 4,000 g)
- Caution: Not designed for use under full vacuum or high pressure (Pressure limit: -20 cmHg at room temp.)



Wide-Mouth Bottle (HDPE)

Type	Cat. No.	Material (Bottle / Cap)	Total Vol. (ml)	Closure Size (mm)	Packaging
	59020	HDPE / PP	20.00	32.00	1,000
	59030	HDPE / PP	30.00	32.00	1,000
	59033	HDPE / PP	30.00	32.00	1,000
	59031	HDPE / PP	30.00	32.00	12 / 72
	59060	HDPE / PP	60.00	32.00	1,000
	59125	HDPE / PP	125.00	42.50	500
	59250	HDPE / PP	250.00	46.20	72
	59500	HDPE / PP	500.00	57.20	48

Wide-Mouth Bottle (Amber)

SPL Wide-Mouth Bottles are durable bottles for storing and handling liquid / solid forms of samples and chemicals. Various sizes are available.

- Useful for light-sensitive materials
- Volumes range from 20 to 500 ml
- 250 ml bottles are applicable for centrifugation (RCF 4,000 g)
- Caution: Not designed for use under full vacuum or high pressure (Pressure limit: -20 cmHg at room temp.)



Wide-Mouth Bottle (Amber)

Type	Cat. No.	Material (Bottle / Cap)	Total Vol. (ml)	Closure Size (mm)	Packaging
	57020	HDPE / PP	20.00	32.00	1,000
	57030	HDPE / PP	30.00	32.00	1,000
	57060	HDPE / PP	60.00	32.00	1,000
	57125	HDPE / PP	125.00	42.50	500
	57250	HDPE / PP	250.00	46.20	72
	57500	HDPE / PP	500.00	57.20	48

Wide-Mouth Bottle (PP)

SPL Wide-Mouth Bottles are durable bottles for storing and handling liquid / solid forms of samples and chemicals. Various sizes are available.

- Volumes range from 5 to 500 ml
- 250 ml bottles are applicable for centrifugation (RCF 4,000 g)
- Colored caps available for 5 ml bottles: Blue, Green, Red, Yellow (Cat. No. 58005)
- Autoclavable
- Caution: Not designed for use under full vacuum or high pressure (Pressure limit: -20 cmHg at room temp.)



Wide-Mouth Bottle (PP)

Type	Cat. No.	Material (Bottle / Cap)	Total Vol. (ml)	Closure Size (mm)	Packaging
	58005	PP / PP	5.00	18.00	1,000
	58020	PP / PP	20.00	32.00	1,000
	58030	PP / PP	30.00	32.00	1,000
	58031	PP / PP	30.00	32.00	12 / 72
	58060	PP / PP	60.00	32.00	1,000
	58125	PP / PP	125.00	42.50	500
	58250	PP / PP	250.00	46.20	72
	58500	PP / PP	500.00	57.20	48

Media Bottle

SPL Life Sciences media bottles, composed of high-strength plastic material, are intended for storing and transporting general reagents and cell culture reagents.

The square-shaped bottles are designed to maximize space saving, durability, strength, and clarity.

The bottles are available as follow: 125 ml, 250 ml, 500 ml, and 1,000 ml. They are shrink-wrapped in a double-walled corrugated paper boxes and thoroughly sterilized for best quality.

- Molded-in graduation scales
- Shrink-wrap tray modules

- Non-pyrogenic
- Non-cytotoxic
- DNase / RNase-free
- Non-hemolytic
- Human DNA-free



Media Bottle

Type	Cat. No.	Material (Bottle / Cap)	Total Vol. (ml)	Sterile	Packaging
	56125	PET / HDPE	125.00	+	24 / 96
	56250	PET / HDPE	250.00	+	30 / 60
	56500	PET / HDPE	500.00	+	24 / 48
	56000	PET / HDPE	1,000.00	+	12 / 24

Narrow-Mouth Bottle (HDPE)

SPL Narrow-Mouth Bottles are durable bottles for storing and handling liquid / solid forms of samples and chemicals. Various sizes are available.

- Volumes range from 4 to 1,000 ml
- Caution: Not designed for use under full vacuum or high pressure (Pressure limit: -12.5 cmHg at room temp.)



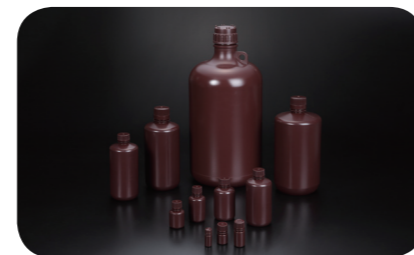
Narrow-Mouth Bottle (HDPE)

Type	Cat. No.	Material (Bottle / Cap)	Total Vol. (ml)	Packaging
	516001	HDPE / PP	4.00	12 / 72
	516002	HDPE / PP	8.00	12 / 72
	516003	HDPE / PP	15.00	12 / 72
	516004	HDPE / PP	30.00	12 / 72
	516005	HDPE / PP	60.00	12 / 72
	516006	HDPE / PP	125.00	12 / 72
	516007	HDPE / PP	250.00	12 / 72
	516008	HDPE / PP	500.00	12 / 48
	516009	HDPE / PP	1,000.00	6 / 24

Narrow-Mouth Bottle (Amber)

SPL Narrow-Mouth Bottles are durable bottles for storing and handling liquid / solid forms of samples and chemicals. Various sizes are available.

- Useful for light-sensitive materials
- Volumes range from 4 to 1,000 ml
- Caution: Not designed for use under full vacuum or high pressure (Pressure limit: -12.5 cmHg at room temp.)



Narrow-Mouth Bottle (Amber)

Type	Cat. No.	Material (Bottle / Cap)	Total Vol. (ml)	Packaging
	516010	HDPE / PP	4.00	12 / 72
	516011	HDPE / PP	8.00	12 / 72
	516012	HDPE / PP	15.00	12 / 72
	516013	HDPE / PP	30.00	12 / 72
	516014	HDPE / PP	60.00	12 / 72
	516015	HDPE / PP	125.00	12 / 72
	516016	HDPE / PP	250.00	12 / 72
	516017	HDPE / PP	500.00	12 / 48
	516018	HDPE / PP	1,000.00	6 / 24

Narrow-Mouth Bottle (PP)

SPL Narrow-Mouth Bottles are durable bottles for storing and handling liquid / solid forms of samples and chemicals. Various sizes are available.

- Volumes range from 4 to 2,000 ml
- Autoclavable



Narrow-Mouth Bottle (PP)

Type	Cat. No.	Material (Bottle / Cap)	Total Vol. (ml)	Packaging
	516019	PP / PP	4.00	12 / 72
	516020	PP / PP	8.00	12 / 72
	516021	PP / PP	15.00	12 / 72
	516022	PP / PP	30.00	12 / 72
	516023	PP / PP	60.00	12 / 72
	516024	PP / PP	125.00	12 / 72
	516025	PP / PP	250.00	12 / 72
	516026	PP / PP	500.00	12 / 48
	516027	PP / PP	1,000.00	6 / 24
	516028	PP / PP	2,000.00	1 / 6

4-5. Storage & Accessories

SPL is also dedicated to developing and manufacturing various products for sample storage.

Deep Well Plate

SPL Deep Well Plates are suitable for various experiments in the field of biology such as HTS applicable assay, sample storage, cell culture and more. Deep Well Plates which are made of high quality polypropylene display high chemical resistance to most polar organic solvents, acid and weak bases. Deep Well Plates are designed with numbers and alphabets on the top to allow for easy sampling.

- Easy to transport and storage, layered (stacking)
- For multi-channel pipette and automatic equipment
- Numeric labeling
- Available storage at -80°C to 121°C
- Non-pyrogenic
- DNase / RNase-free
- Human DNA-free



Deep Well Plate

Type	Cat. No.	Material	External Dimensions w x l x h (mm)	Bottom Type	Total Vol. (ml)	Sterile	Packaging
	34496	PP	85.40 x 127.60 x 30.00	V	0.80	+	5 / 25
	34596	PP	85.40 x 127.60 x 30.00	V	0.80	-	5 / 25
	34696	PP	85.40 x 127.60 x 44.00	U	2.00	+	5 / 25
	34796	PP	85.40 x 127.60 x 44.00	U	2.00	-	5 / 25

Storage Plate 96well

SPL Storage Plates are designed for storage of biological samples and chemicals.

- Storage of biological sample and chemicals in small quantity
- Temperature range: -70°C to 140°C
- Chemically resistant to organic solvents, such as weak acids and weak bases.



Storage Plate 96well

Type	Cat. No.	Material	External Dimensions w x l x h (mm)	Bottom Type	Color	Total Vol. (ml)	Surface Treatment	Sterile	Packaging
	34396	PP	85.40 x 127.60 x 14.40	Round	Clear	0.30	-	-	10 / 100

Reservoir

Sloped bottoms of SPL Reservoirs are useful for filling multichannel-pipette during both cell culture and immunoassay experiments.

- Manufactured from modified polystyrene
- Notched volume label (Cat. No.22050, 23050, 22001, 23001)
- Supplied sterile in packs of 1 or 5
- Supplied non-sterile in packs of 20 (Cat. No. 23001)



Reservoir

Type	Cat. No.	Material	Color	Design	Working Vol. (ml)	Sterile	Packaging
	22001	PS	White	Sloped Bottom	100.00	+	1 / 50
	23001	PS	White	Sloped Bottom	100.00	-	20 / 100
	22050	PS	White	Sloped Bottom	50.00	+	1 / 50
	23050	PS	White	Sloped Bottom	50.00	+	5 / 100
	21002	PS	White	Sloped Bottom	25.00	+	1 / 50
	21102	PS	White	Sloped Bottom	25.00	+	5 / 100
	21008	PS	White	Sloped Bottom	7.00	+	1 / 100
	21012	PS	White	Sloped Bottom	4.00	+	1 / 100

Omni Box

Omni Boxes of SPL enable simple and convenient storage of small experimental equipment in a single container.

- For storing magnetic bars, tubing and etc



Omni Box

Type	Cat. No.	Material	Dimensions w x l x h (mm)	Packaging
	80010	PS	97.00 x 183.00 x 33.00	1

Storage & Accessories

Autoclaving Jar

Autoclaving Jars are containers suitable for autoclaving small plastic-wares that require sterilization.

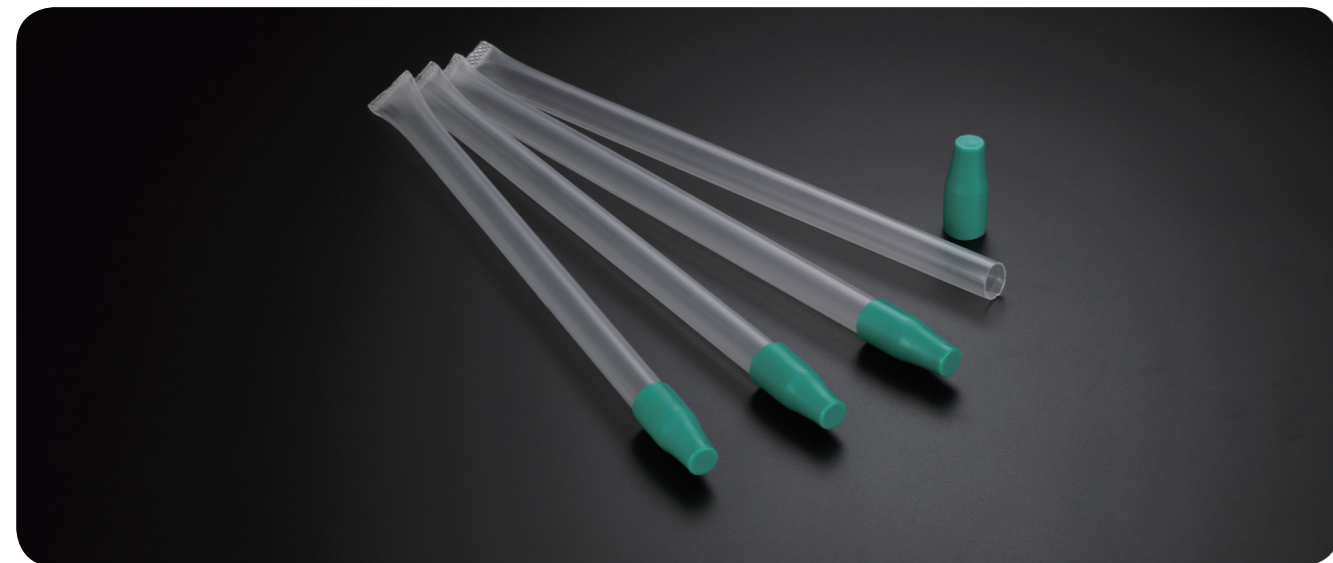
- Autoclavable



Autoclaving Jar					
Type	Cat. No.	Material	Container Style (mm)	Internal Dimensions d x h (mm)	Packaging
	310123	PP	120.00 x 80.00	103.00 x 78.60	20

Strip Tube

Strip Tubes are designed for storage of IPG strips after 2D electrophoresis.



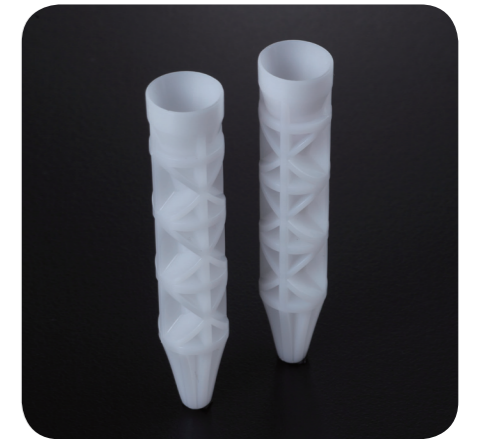
Strip Tube				
Type	Cat. No.	Material	Length (cm)	Packaging
	60020	PP	20.00	100

Storage & Accessories

5 ml Snap Tube Adapter

SPL 5 ml Snap Tube Adapter is designed for 15 ml centrifuge rotors.

- Excellent durability
- 5 ml Snap Tube Adapter is only available for conical type tubes (not for skirted)



5 ml Snap Tube Adapter					
Type	Cat. No.	Material	External Dimensions d x h (mm)	RCF rating	Packaging
	52005	Acetal	16.60 x 78.24	25,000 x g	10

Water Sample Bottle

SPL Water Sample Bottles are suitable for environmental hygiene analysis.

- Easy to carry
- Reduced volume for storage



Water Sample Bottle						
Type	Cat. No.	Material	External Dimensions w x l x h (mm)	Total Vol. (L)	Sterile	Packaging
	410011	PE	79.70 x 130.80 x 160.90	1.00	+	1 / 150
	410012	PE	97.90 x 162.70 x 207.10	2.00	+	1 / 100
	410014	PE	127.00 x 204.20 x 260.40	4.00	+	1 / 65

Storage & Accessories

Mouse Cage

Mouse Cages of SPL are widely used for handling laboratory animals.

- Light-weighted for easy handling
- Large breeding space
- Disposable



Mouse Cage

Type	Cat. No.	Material	Dimensions w x l x h (mm)	Total Vol. (L)	Sterile	Packaging
	82018	PET	230.00 x 380.00 x 195.00	18.00	+	10
	82118	PET	230.00 x 380.00 x 195.00	18.00	-	10

MOUZIP®

MOUZIP® is a unique device that serves as a complete testing bench for a variety of mouse experiments, composed of an experimental mat that absorbs spilled liquids and a paper disposal case that wraps the mouse cadaver for ethical handling, storing and disposing.

- The top side of the mat efficiently absorbs any excess liquids during the experiment, while the waterproof bottom maintains hygienic conditions.
- The paper case connected to the mat is folded up in a triangular coffin-like structure to enable ethical storage and hygienic disposal of cadaver after experiments.



MOUZIP®

Type	Cat. No.	Material (Outer / Inner)	Cover Dimensions (cm)	Mat Dimensions (cm)	Packaging
	82101	Kraft / Fiber mat	13.00 x 24.00	25.00 x 30.00	50

Storage & Accessories

Label Protection Tape

Label Protection Tape protects labels in harsh or outdoor environments, against water, UV, chemicals and abrasion. It is available for all products and you can easily distinguish samples in three colors on the border.

- Prevent evaporation
- 3 colors: Red, Green, Blue
- Working temperature range: -20°C to 100°C
- Thickness: 0.5 mm
- Non-sterile



Label Protection Tape

Type	Cat. No.	Material	Dimensions w x l (mm)	Color	Packaging
	96001	PET	25.00 x 85.00	Red	3,000 ea / roll
	96002	PET	25.00 x 85.00	Green	3,000 ea / roll
	96003	PET	25.00 x 85.00	Blue	3,000 ea / roll

Glove (Safe Guard)

SPL Safe Guard protects against various harmful sources such as chemicals, solvents, microorganism and physical abrasion etc. and reduces the risk of contamination. SPL Safe Guard, made of latex or nitrile, offers strong durability and comfortable wearing.

- Comfortably fit and increased flexibility
- Excellent durability
- Powder Free
- Meet or exceed ASTM D 3578 (Cat. No. G9100, G9110, G9120, G9130)
- Meet or exceed ASTM D 6319 (Cat. No. G9200, G9210, G9220, G9230)



Glove (Safe Guard)

Type	Cat. No.	Material	Size	Color	Packaging
	G9100	Latex	Extra Small	Natural	100
	G9110	Latex	Small	Natural	100
	G9120	Latex	Medium	Natural	100
	G9130	Latex	Large	Natural	100
	G9200	Nitrile	Extra Small	Blue	100
	G9210	Nitrile	Small	Blue	100
	G9220	Nitrile	Medium	Blue	100
	G9230	Nitrile	Large	Blue	100



05

Plant & Insect Culture

SPL Life Sciences provides a wide range of plant culture products. Our products are manufactured under strict quality control system to comply with customer demands. Also we provide a unique range of insect breeding containers to enable researchers to select the right products for better breeding solutions.

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5-1. Plant Culture

Incu Tissue

Incu Tissues are ideal for plant tissue cultures. As the sprout grows, another Incu Tissue can be connected to the top as an optional frame.

- Embossing on the closing edge of cover and jar
- Optional frame (Cat. No. 310074) is only available for 310070 and 310071
- Cat. No. 310070 can be assembled with Insect Breeding Box (Cat. No. 310075, 310076, 310077)



Incu Tissue

Type	Cat. No.	Material	Style	External Dimensions w x l x h (mm)	Internal Dimensions w x l x h (mm)	Sterile	Packaging
	310070	PS	Square	72.00 x 72.00 x 100.00	65.40 x 65.40 x 98.20	+	4 / 120
	310071	PC	Square	72.00 x 72.00 x 100.00	65.40 x 65.40 x 98.20	-	4 / 120
	310072	PP	Square	72.00 x 72.00 x 100.00	65.40 x 65.40 x 98.20	-	4 / 120
	310074	PP	Frame	80.80 x 80.80 x 21.00	63.80 x 63.80 x 21.00	-	30 / 60

Plant Culture Dish

Plant Culture Dishes are used for sprout culture. Pre-sterilized, flat dishes provide excellent culture results.

- Excellent air circulation design
- Excellent flatness
- Stable stacking
- Designed for reduced contamination
- Autoclavable (Cat. No. 310103, 310101)
- Gridded bottom (Cat. No. 310200)



Plant Culture Dish

Type	Cat. No.	Material	External Dimensions d x h (mm)	Internal Dimensions d x h (mm)	Autoclavable	Sterile	Packaging
	310103	PP	100.00 x 50.00	91.40 x 48.50	+	-	5 / 200
	310100	PS	100.00 x 40.00	91.30 x 38.20	-	+	5 / 200
	310101	PP	100.00 x 40.00	91.30 x 38.20	+	-	5 / 200
	310200	PS	100.00 x 20.00	94.60 x 18.60	-	+	10 / 200
	10090	PS	90.00 x 15.00	85.90 x 12.60	-	+	10 / 500
	10091	PS	90.00 x 20.00	86.20 x 17.70	-	+	10 / 200
	10100	PS	100.00 x 15.00	96.40 x 13.75	-	+	10 / 500

Plant Culture Bottle I

Plant Culture Bottles I are used for sprout or sapling culture.

- Stackable feature for space saving
- Designed for reduced contamination
- Screw cap



Plant Culture Bottle I

Type	Cat. No.	Material (Bottle / Cap)	Dimensions w x l x h (mm)	Total Vol. (ml)	Sterile	Packaging
	310500	PP / PP	100.00 x 100.00 x 110.00	500.00	-	1 / 80

Plant Culture Bottle II

Plant Culture Bottles II are used for culturing sapling or callus.

- Durable plastic bottle
- Designed for reduced contamination
- Screw cap
- Autoclavable



Plant Culture Bottle II

Type	Cat. No.	Material (Bottle / Cap)	Dimensions w x l x h (mm)	Total Vol. (ml)	Sterile	Packaging
	310501	PC / PP	115.00 x 115.00 x 140.00	500.00	-	1 / 50



Phytohealth

Phytohealth is useful for the culture of individual plantlet.

- Stackable feature for space saving
- Embossing on the closing edge of cover and the jar
- Phytohealth bodies and caps are configured separately
- Autoclavable



Phytohealth

Type	Cat. No.	Material	External Dimensions d x h (mm)	Internal Dimensions-Body d x h (mm)	Internal Dimensions-Cap d x h (mm)	Sterile	Packaging
	310120	PP	120.00 x 80.00	103.00 x 78.60	101.00 x 10.20	-	400
	310121	PP	120.00 x 110.00	103.00 x 78.60	101.00 x 32.50	-	400

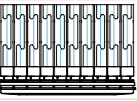




AraHarvest

AraHarvest is a convenient system for culturing and harvesting seeds from individual sapling.

- AraHarvest set: tube, base, basket, top tray, bottom tray (Cat. No. 310060)
- Aracon Tube (Cat. No. 310061)
- Aracon Base (Cat. No. 310062)
- Aracon Basket (Cat. No. 310063)
- Aracon Top Tray (Cat. No. 310064), space saving 50 hole tray
- Aracon Bottom Tray (Cat. No. 310065)



AraHarvest

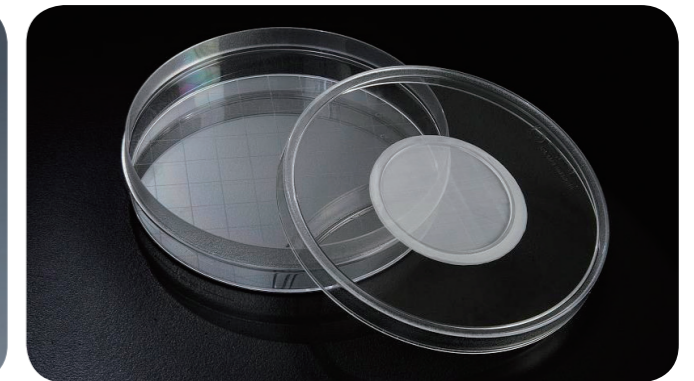
Type	Cat. No.	Material	Tube	Base	Basket	Top Tray	Bottom Tray	Packaging
	310060	PS / PP	200 ea	200 ea	200 ea	4 ea	4 ea	
	310061	PS	100 ea					100
	310062	PS		100 ea				100
	310063	PP			100 ea			100
	310064	PP				4 ea		4
	310065	PP					4 ea	4

5-2. Insect Culture






Insect Breeding Dish & Jar

Insect Breeding Dishes and Jars are ideal containers for breeding and observing micro-insects. Ventilation hole on the cover enables excellent air circulation and easy humidity control.

- Easy to breed and observe micro-insects and their natural enemies
- Effective air circulation and humidity control
- Useful for room tests i.e., room breeding and drug screening
- Mesh located on the cap for ventilation and prevention of insect escape
- Stainless mesh type (Cat. No. 310202)
- External grip (Cat.No. 310050)
- Gridded bottom (Cat. No. 310201)







Insect Breeding Dish & Jar

Type	Cat. No.	Material	External Dimensions d x h (mm)	Internal Dimensions d x h (mm)	Ventilation Hole Size (mm)	Mesh Pore Size (mm)	Hole Position	Sterile	Packaging
	310050	PS	50.00 x 15.00	48.75 x 11.80	13.20	0.053	Cap	-	20 / 200
	310102	PS	100.00 x 40.00	91.35 x 38.50	40.00	0.053	Cap	-	5 / 200
	310122	PP	120.00 x 80.00	91.00 x 70.00	40.00	0.053	Cap	-	400
	310201	PS	100.00 x 20.00	94.62 x 18.60	40.00	0.053	Cap	-	10 / 200
	310202	PS	100.00 x 40.00	91.35 x 38.50	40.00	0.053	Cap	-	5 / 200

Insect Breeding Box

Insect Breeding Boxes are ideal for breeding and observing micro-insects. Ventilation hole on the cover enables excellent air circulation and easy humidity control.

- Easy to breed and observe micro-insects and natural enemies
- Effective air circulation and humidity control
- Useful for room tests i.e., room breeding and drug screening
- Mesh type: stainless or nylon (please inquire)
- All products can be assembled with Incu Tissue (Cat. No. 310070)
- Optimal Frame (Cat. No. 310074)

Insect Breeding Box									
Type	Cat. No.	Material	External Dimensions w x l x h (mm)	Internal Dimensions w x l x h (mm)	Ventilation Hole Size (mm)	Mesh Pore Size (mm)	Hole Position	Sterile	Packaging
	310075	PS	72.00 x 72.00 x 100.00	65.40 x 65.40 x 98.20	40.00	0.053	Cap	-	4 / 120
	310076	PS	72.00 x 72.00 x 100.00	65.40 x 65.40 x 98.20	40.00	0.053	Bottom	-	4 / 120
	310077	PS	72.00 x 72.00 x 100.00	65.40 x 65.40 x 98.20	40.00	0.053	Side & Bottom (3 Holes)	-	4 / 120
	310074	PP	80.80 x 80.80 x 21.00	63.80 x 63.80 x 21.00	-	-	-	-	30 / 60




Drosophila Vials

Drosophila Vials have excellent transparency and easy to observe the contents. Precision molded plastic Drosophila Vials are a safe and cost effective alternative to glass vials.

- For drosophila study and research
- 100 vials (10 x 10) per tray




Drosophila Vials					
Type	Cat. No.	Material	External Dimensions d x h (mm)	Sterile	Packaging
	310301	PS	25.00 x 95.00	-	100 / 500

Drosophila Vial Plugs

Fit SPL Drosophila Vials and easy to use. SPL Drosophila Vial Plugs reduce evaporation.

- Fit SPL Drosophila Vials
- Reduces evaporation



Drosophila Vial Plugs					
Type	Cat. No.	Material	External Dimensions d x h (mm)	Sterile	Packaging
	310300	Cotton	25.00 x 35.00	-	500



Contents

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06

Clinical Labware

SPL Life Sciences provides labwares for storing clinical samples in different shapes and materials to be utilized for multiple purposes. All products are manufactured under strict quality protocols.











6. Clinical Labware

SPL Life Sciences provides labwares for storing clinical samples in different shapes and materials to be utilized for multiple purposes. All products are manufactured under strict quality protocols.

Specimen Cup & Bottle

SPL Life Sciences provides high quality Specimen Cups & Bottles for medical sampling.

- Tight sealing screw cap
- External graduations with marking area
- Urine Cup: No Cap, pouring region (Cat. No. 400121)
- Female Urine Cup (Cat. No. 410200)
- Separate packaging of caps and bodies (Cat. No. 401120)
- Compatible with the pneumatic tube systems for hospitals (Cat. No. 410120)

Type	Cat. No.	Material (Tube / Cap)	Total Vol. (ml)	Sterile	Packaging
	400120	PP / PE	120.00	+	5 / 250
	401120	PP / PE	120.00	-	Cap: 250 / 500, Body: 10 / 500
	400121	PP	120.00	-	10 / 500
	410120	PP / PE	120.00	+	5 / 250
	410200	PP	200.00	+	20 / 160
	400050	PP / PE	50.00	+	1 / 100
	400060	PP / PE	60.00	+	5 / 100
	401060	PP / PE	60.00	-	100



Cat. No. 400120, 401120



Cat. No. 400121



Cat. No. 410120



Cat. No. 410200



Cat. No. 400050









Cat. No. 400060, 401060

Medical Container

SPL Medical Containers are useful for storing and handling of medical samples.

- Ideal sampling containers for sputum or stool examination
- Tight sealing screw cap
- External graduation
- Self-standing conical bottom
- Spoons are provided for easy sampling: stool container (Cat. No. 400500)
- Container rack (Cat. No. 410025)

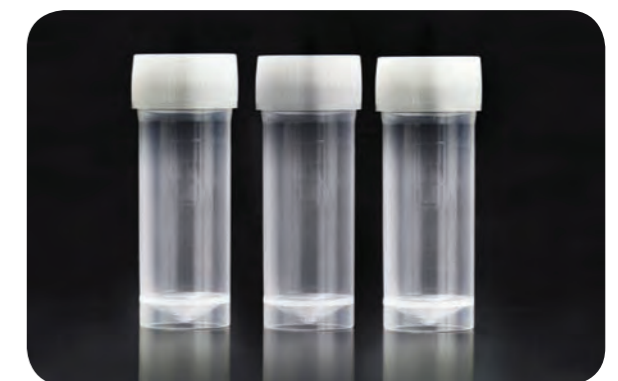



Type	Cat. No.	Material (Tube / Cap)	Color	Total Vol. (ml)	Sterile	Packaging
	400025	PP / PE	Clear	25.00	+	100 / 500
	400125	PP / PE	Clear	25.00	-	100 / 500
	401125	PS / PE	Clear	125.00	-	300 / 300
	400500	PP / PE	Black	25.00	-	100 / 500
	400501	PP / PE	Black	25.00	-	100 / 500
	410025	PS	White	-	-	1 / 20

Sample Tube

SPL Sample Tubes are designed for storing various clinical samples. SPL Life Sciences provides durable, easy-to-use bottles to meet various demands of customers.

- Tight sealing screw cap
- External graduations
- Self-standing conical bottom

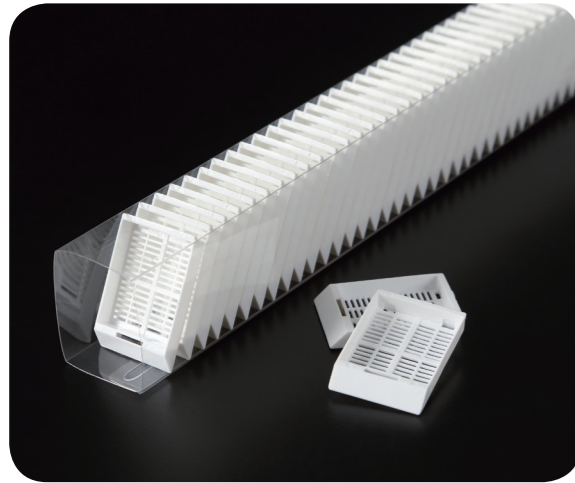


Type	Cat. No.	Material (Tube / Cap)	Total Vol. (ml)	External Dimensions d x h (mm)	Sterile	Packaging
	50221	PP / PE	20.00	25.00 x 73.00	-	25 / 500

Embedding Cassette

SPL Embedding Cassettes are suitable for holding and identifying tissue sample.

- Disposable plastic tissue cassettes are made from acetal polymer
- Wider unobstructed writing surface sloped at 40° angle
- Bases and separate lids packaging
- Integral lid type
(Cat. No. 400600, 40060B, 40060G, 40060P, 40060Y)



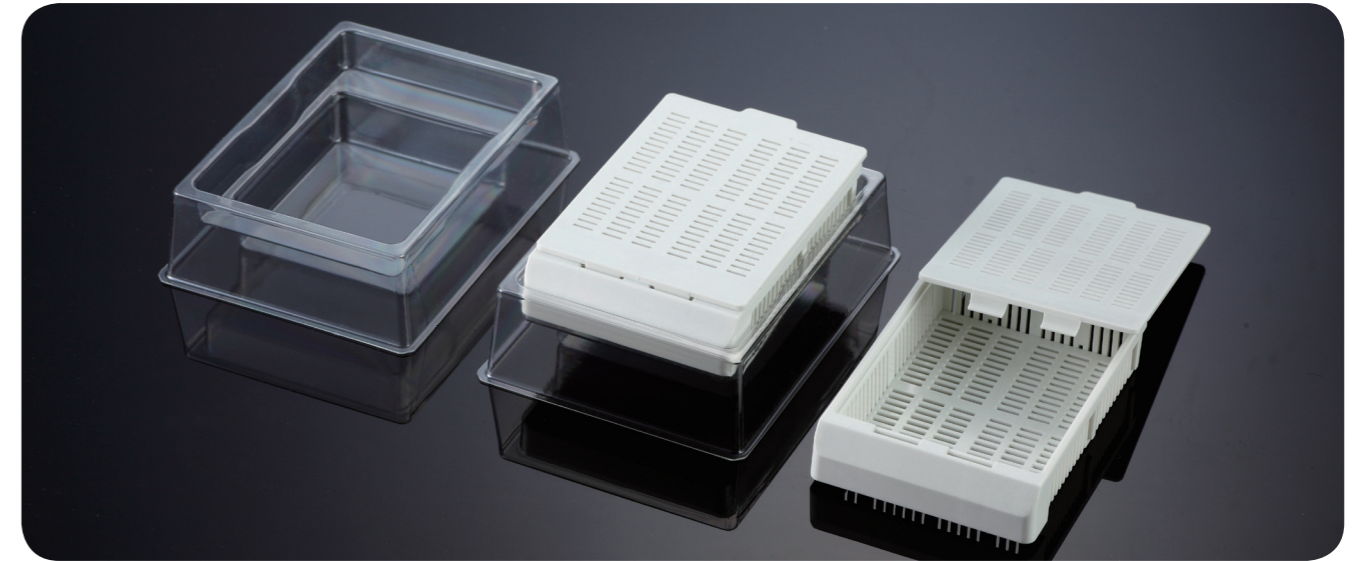
Embedding Cassette

Type	Cat. No.	Material	Color	Type of Packaging	Packaging
	400600	Acetal	White	Bulk	2,000
	40060B	Acetal	Blue	Bulk	2,000
	40060G	Acetal	Green	Bulk	2,000
	40060P	Acetal	Pink	Bulk	2,000
	40060Y	Acetal	Yellow	Bulk	2,000
	400610	Acetal	White	Bulk	2,000
	40061B	Acetal	Blue	Bulk	2,000
	40061G	Acetal	Green	Bulk	2,000
	40061P	Acetal	Pink	Bulk	2,000
	40061Y	Acetal	Yellow	Bulk	2,000
	401610	Acetal	White	Taped	70 / line, 32 lines / box, 2,240 / box
	40161B	Acetal	Blue	Taped	70 / line, 32 lines / box, 2,240 / box
	40161G	Acetal	Green	Taped	70 / line, 32 lines / box, 2,240 / box
	40161P	Acetal	Pink	Taped	70 / line, 32 lines / box, 2,240 / box
	40161Y	Acetal	Yellow	Taped	70 / line, 32 lines / box, 2,240 / box
	402610	Acetal	White	Cased	75 / line, 50 lines / box, 3,750 / box
	40261B	Acetal	Blue	Cased	75 / line, 50 lines / box, 3,750 / box
	40261G	Acetal	Green	Cased	75 / line, 50 lines / box, 3,750 / box
	40261P	Acetal	Pink	Cased	75 / line, 50 lines / box, 3,750 / box
	40261Y	Acetal	Yellow	Cased	75 / line, 50 lines / box, 3,750 / box

Super Mega Cassette

SPL Super Mega Cassettes are specially designed to hold large specimens during embedding processes.

- Disposable plastic tissue cassettes are made from acetal polymer
- Supplied with PET base



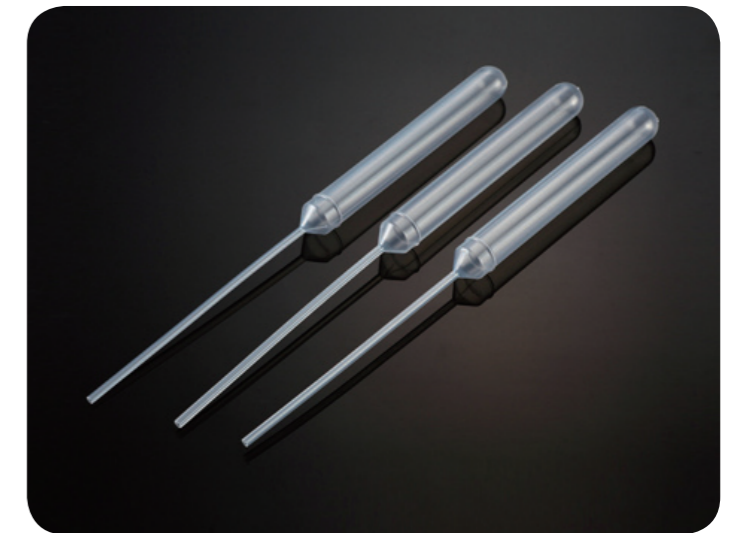
Super Mega Cassette

Type	Cat. No.	Color	Material (Cassette / Base)	External Dimensions w x l x h (mm)	Packaging
	400800	Gray	Acetal / PET	57.6 x 80.8 x 16.5	100

Serum Separating Tube

SPL Serum Separating Tubes are designed to facilitate separation of serum and blood cells.

- Suitable for separating serum and blood cells
- Suitable for collection and storage of clinical specimen



Serum Separating Tube

Type	Cat. No.	Material	Total Length (mm)	Total Vol. (mm)	Sterile	Packaging
	410514	PE	210.00	10.00	-	250 / 2,000

Medical Tube

SPL Medical Tubes are widely used and referenced in various laboratory protocols.

- Medical packaging
- Round type bottom & Internal graduations (Cat. No. 400510, 400511, 400520, 400521)
- Round type bottom (Cat. No. 400530, 400531)
- Conical bottom & Internal graduations (Cat. No. 401015)
- Caps are provided for tight sealing (Cat. No. 400530)



Cat. No. 400510, 400511



Cat. No. 400531, 400530



Cat. No. 401015

Medical Tube

Type	Cat. No.	Material (Tube / Cap)	Total Vol. (ml)	External Dimensions d x h (mm)	Sterile	Packaging
	400510	PS	5.00	12.00 x 75.00	-	250 / 2,000
	400511	PP	5.00	12.00 x 75.00	-	250 / 2,000
	400520	PS	14.00	17.00 x 95.40	-	25 / 2,000
	400521	PP	14.00	17.00 x 95.40	-	25 / 2,000
	400530	PS / PE	10.00	15.56 x 99.92	-	100 / 1,000
	400531	PS	10.00	15.56 x 99.92	-	100 / 1,000
	401015	PS	12.00	16.88 x 107.70	-	200 / 2,000

Cyto Pap Brush

SPL Cyto Pap Brushes are used for harvesting cells from human cervical regions, which are made from non-cytotoxic resin. The brushes are designed for minimal damage of the cervical tissues during harvesting.

- Brushes are separable from the handles
- Produced in KGMP certified manufacturing system
- Disposable



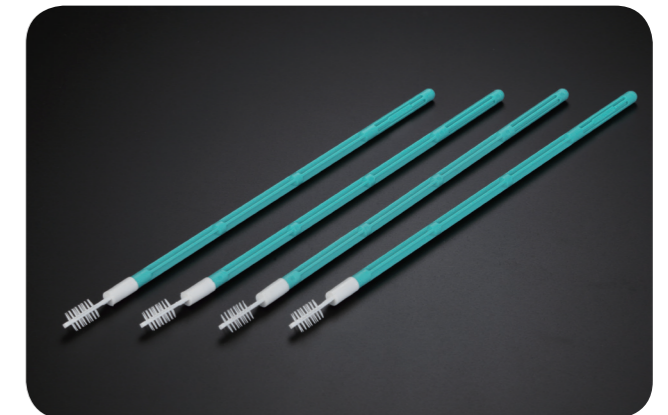
Cyto Pap Brush

Type	Cat. No.	Material (Handle / Brush)	Total Length (mm)	Sterile	Packaging
	400200	PP / PE	200.50	+	100 / 3,000

Cyto Medical Brush

SPL Cyto Medical Brushes are products for harvesting cells from human oral regions. Made of non-cytotoxic polymer resin, the brushes are designed for minimal damage of the oral tissues during harvesting.

- Brushes are separable from the handles
- Disposable
- Non-pyrogenic
- Non-cytotoxic
- DNase / RNase-free
- Human DNA-free



Cyto Medical Brush

Type	Cat. No.	Material (Handle / Brush)	Total Length (mm)	Sterile	Packaging
	400210	PP / PE	197.50	+	1 / 100

Vacuum Needle Holder

SPL Vacuum Needle Holders are designed for blood collection. The holders provide fixed retention of the needle and tube during blood collection.

- Suitable for Vacuum Blood Collection
- Non-slip handle
- Disposable



Vacuum Needle Holder					
Type	Cat. No.	Material	Total Length (mm)	Sterile	Packaging
	BA400900	PP	47.50	-	250 / 1,000

Sample Cup 3 ml

SPL 3 ml Sample Cups are designed for clinical pathology testing of blood.

- Useful for clinical pathology test
- Self standing conical bottom



Sample Cup 3 ml				
Type	Cat. No.	Material	Working Vol. (ml)	Packaging
	400730	PS	3.00	1,000 / 6,000

Transport Tube

SPL Transport tube for safe transport of pathogenic organisms and clinical specimens; they are tightly sealed to prevent possible leakage.

- Non-pyrogenic
- Non-cytotoxic
- DNase / RNase-free



Transport Tube					
Type	Cat. No.	Material (Tube / Cap)	Total Vol. (ml)	Sterile	Packaging
	BA50212	PP / PE	12.00	-	50 / 1,000

Transport Bottle

SPL Transport Bottles are specially designed for safe transport of pathogenic organisms and clinical specimens; they are tightly sealed to prevent possible leakage.

- For category A, UN2814 (Cat.No 401000)
- For category B, UN3373 (Cat.No 411000)
- 1,000 ml secondary container including absorbent, cushioning material and labels
- Category A: An infectious substance which is transported in a form that, when exposure to it occurs, is capable of causing permanent disability, life-threatening or fatal disease in otherwise healthy humans or animals.
- Category B: An infectious substance which does not meet the criteria for inclusion in Category A.



Cat. No. 401000



Cat. No. 411000

Transport Bottle							
Cat. No.	Color (Cap / Body)	Material (Cap / Body)	External Dimensions d x h x l (mm)	Internal Dimensions d x h (mm)	Total Vol. (ml)	Empty Weight (g)	Packaging
401000	Red / Natural	PP / PP	164 x 164 x 168	132 x 155	1,000.00	260.00	1 / 10
411000	Red / Natural	PP / PP	112 x 110 x 190	107.5 x 176.3	1,000.00	147.00	1 / 10

SPL Product Raw material Chemical Resistance Chart

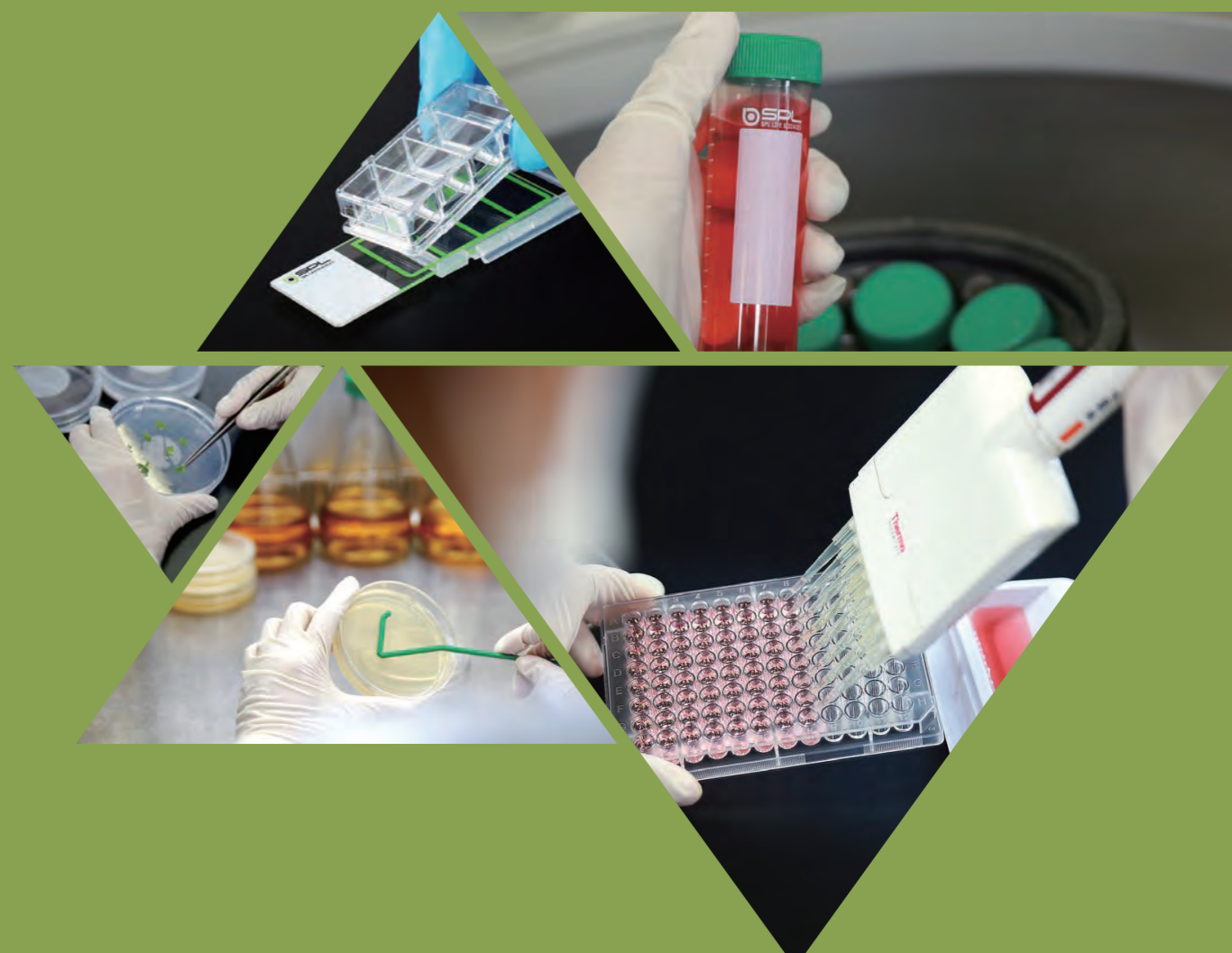
Chemical	LDPE		HDPE		PP		PS		PET	
	RT	50-60°C	RT	50-60°C	RT	50-60°C	RT	50-60°C	RT	50-60°C
Acetaldehyde, pure	B	D	B	C	B	D	D	D	-	-
Acetic acid 5%	A	A	A	A	A	A	A	B	B	-
Acetic acid 50%	B	C	A	B	A	A	B	B	C	D
Acetone, pure	D	D	D	D	B	D	D	D	D	D
Acetonitrile, pure	A	A	A	A	A	B	D	D	-	-
Ammonium acetate, saturated	A	A	A	A	A	A	A	A	-	-
Ammonium Hydroxide, 5%	A	A	A	A	A	A	A	C	C	D
Ammonium Hydroxide, 30%	A	B	A	A	A	B	B	C	D	D
Butyric Acid, pure	D	D	C	D	D	D	D	D	D	D
Chloroform, pure	C	D	C	D	D	D	D	D	-	-
Chromic acid, 50%	A	A	A	A	B	C	C	D	-	-
Cyclohexane, pure	C	D	C	D	B	D	D	D	-	-
Dimethylsulfoxide, pure	A	A	A	A	A	A	A	B	D	D
Ether, pure	D	D	C	D	D	D	D	D	A	-
Ethyl alcohol, 40%	A	B	A	A	A	A	A	B	B	-
Ethyl alcohol, pure	A	B	A	A	A	A	A	B	B	-
Ethyl glycol, pure	A	A	A	A	A	A	A	A	A	-
Formaldehyde, 10%	A	A	A	A	A	A	B	B	-	-
Formaldehyde, 40%	A	B	A	B	A	A	B	B	-	-
Formic Acid, 3%	A	B	A	A	A	A	A	A	-	-
Formic Acid, 50%	B	B	A	A	A	B	B	C	-	-
Glutaraldehyde, pure	A	B	A	A	A	A	A	C	-	-
Glutaraldehyde Disinfectant	A	B	A	A	A	A	A	C	-	-
Glycerine, pure	A	A	A	A	A	A	A	A	A	-
Glycerol, pure	A	A	A	A	A	A	A	A	A	-
Hexane	D	D	D	D	D	D	D	D	-	-
Hydrochloric acid, 5%	A	A	A	A	A	A	A	A	A	-
Hydrochloric acid, 35%	A	A	A	A	A	B	A	A	C	D
Hydrogen peroxide, 3%	A	A	A	A	A	B	A	B	A	-
Hydrogen peroxide, 30%	A	B	A	A	A	C	A	B	A	-
Isobutyl alcohol, pure	A	A	A	A	A	A	B	B	-	-
Isopropanol, pure	A	A	A	A	A	A	A	B	-	-
Methyl Alcohol, pure	A	B	A	A	A	A	B	C	B	-
Methyl Ethyl ketone, pure	D	D	D	D	A	B	D	D	B	-
Nitric acid 10%	A	A	A	A	A	A	B	D	B	-
Nitric acid 70%	C	D	C	D	D	D	D	D	D	D
Phenol, liquid	D	D	D	D	D	D	D	D	D	D
Phosphoric acid, 5%	A	A	A	A	A	A	A	A	-	-
Phosphoric acid, 85%	A	D	A	A	A	B	A	B	-	-
Picric acid, pure	D	D	D	D	D	D	B	C	-	-
Potassium hydroxide 1%	A	A	C	C	A	A	A	B	-	-
Potassium hydroxide, concentrated	A	A	A	A	A	A	B	B	-	-
Sulfuric acid, 6%	A	A	A	A	A	A	A	A	A	-
Sulfuric acid, 98%	B	B	C	D	C	D	C	C	D	D
Trichloroacetic acids	C	D	C	D	B	C	C	D	-	-

A - Resistance
 B - Limited resistance
 C - Some effect after 7 days of constant exposure
 D - Immediate damage

- The above chemical resistance chart is for general guidelines only.
 - Since multiple factors may affect the chemical resistance of a given product, you should test under your own conditions.

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52115	81	61012	83	90020	49	94020	48
52150	81			90021	49	94030	48
		1.5 ml Strip Tube Rack		90030	49	94040	48
2well Conical Tube Rack		61024	84	90031	49	94070	48
52202	82					94100	48
		Stacker Microtube Rack		Cell Lifter		SPL SEAL™	
Snap Tube Rack		61048	83	90040	49	96000	61
53015	82					Label Protection Tape	
53050	82	Cryovial Rack		Spreader		96001	95
		61050	46	90050	69	96002	95
5 ml Snap Tube				Grid Sticker		96003	95
50005	77	Microtube Rack		90100	69		
50105	77	61080	84			Dialysis Chamber	
54005	77			Serological Pipette		97003	59
54105	77	Filter Tube		91001	72	97007	59
55005	77	65105	58	91002	72	97014	59
55105	77	65115	58	91005	72	97099	59
		65205	58	91010	72	97103	59
Roller Bottle		65215	58	91025	72	97103	59
55085	17	66105	58	91050	72	97103	59
55185	17	66115	58	93001	72	97114	59
55285	17	66205	58	93002	72		
55385	17	66215	58	93005	72	Spheroid Forming Gel	
				93010	72	99005	35
		Cell Culture Flask		93025	72		
Media Bottle (Square PET)		70025	12	93050	72	Vacuum Needle Holder	
56000	87	70075	12	95001	72	BA400900	112
56125	87	70125	12	95002	72		
56250	87	70175	12	95005	72	Glove (Safe Guard)	
56500	87	70225	12	95010	72	G9100	95
		70275	12	95025	72	G9110	95
Wide-Mouth Bottle (Amber)		70325	12	95050	72	G9120	95
57020	86	70375	12			G9130	95
57030	86	71175	12	Cuttingtop Pipette		G9200	95
57060	86	72175	12	91110	72	G9210	95
57125	86	73175	12			G9220	95
57250	86	74175	12	SPL3D™ Spheroid Forming Unit		G9230	95
57500	86			911604	34		
		Erlenmeyer Flask				SPL3D™ Multi Insert Dish	
Wide-Mouth Bottle (PP)		73000	18, 67	911605	36	911605	36
58005	87	73002	18, 67	911606	36	911606	36
58020	87	73250	18, 67	911607	36	911607	36
58030	87	73500	18, 67	911615	36	911615	36
58031	87	74000	18, 67	911617	36	911617	36
58060	87	74002	18, 67	911625	36	911625	36
58125	87	74250	18, 67	911627	36	911627	36
58250	87	74500	18, 67	911107	36	911107	36
58500	87	75000	67	911117	36	911117	36
		75002	67			Micropipette Tip	
Bacteria Culture Tube		75250	67	92000	74	92000	74
59015	68	75500	67	92001	74	92001	74
59050	68	76000	67	92002	74	92002	74
		76002	67	92003	74	92003	74
Wide-Mouth Bottle (HDPE)		76250	67	92004	74	92004	74
59020	86	76500	67	92010	74	92010	74
59030	86			92011	74	92011	74
59031	86	Omni Box		92012	74	92012	74
59033	86	80010	91	92013	74	92013	74
59060	86			92014	74	92014	74
59125	86	Cryo Box		92020	74	92020	74
59250	86	80025	46	92021	74	92021	74
59500	86	80081	46	92022	74	92022	74
		80181	46	92023	74	92023	74
PCR Tube		80281	46	92024	74	92024	74
60001	57			92200	74	92200	74
60008	57	PCR Tube Rack		92201	74	92201	74
60011	57	80096	84	92202	74	92202	74
60018	57			92203	74	92203	74
		Storage Box		92204	74	92204	74
Microcentrifuge Tube		80100	85			Q-Suction 8-Tip	
60015	80	81081	85	92108	75	92108	75
60115	80	81100	85	92208	75	92208	75
60017	80	84100	85	92308	75	92308	75
60117	80					Cell Strainer	
61015	80	Conical Tube Storage Box		93040	48	93040	48
61017	80	80116	85	93070	48	93070	48
61020	80	80136	85	93100	48	93100	48
61120	80					Aspiration Pipette	
62015	80	Mouse Cage		94001	73	94001	73
62017	80	82018	94	94002	73	94002	73
64015	80	82118	94	94005	73	94005	73
64020	80			94010	73	94010	73
		MOUZIP®					
Strip Tube		82101	94				
60020	92						
		Loop & Needle					
1.5 ml Strip Tube		90001	68				
60615	79	90010	68				
60715	79						



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