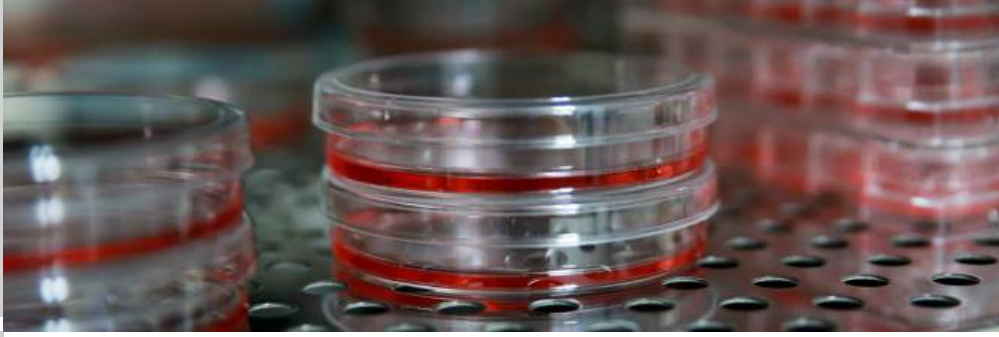
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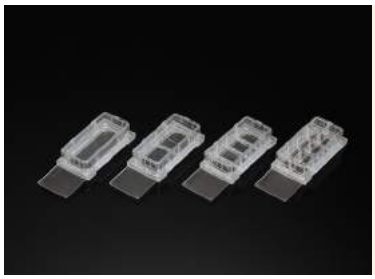
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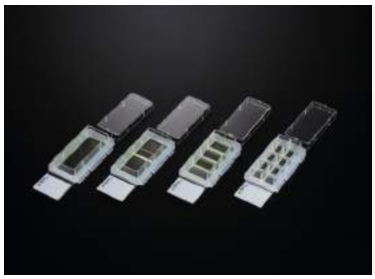
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Cell Culture Slide II

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Cell Culture Slide Hybridwell

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Deep Well Plate

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Black Plate

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White Plate

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Spheroid Forming Unit

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Multi Insert Dish

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Snap Tube

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Multi C-Strainer

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5 ml Snap Tube

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Cyto Medical Brush

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5 ml Screw Tube

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SPLScar™ Scratcher

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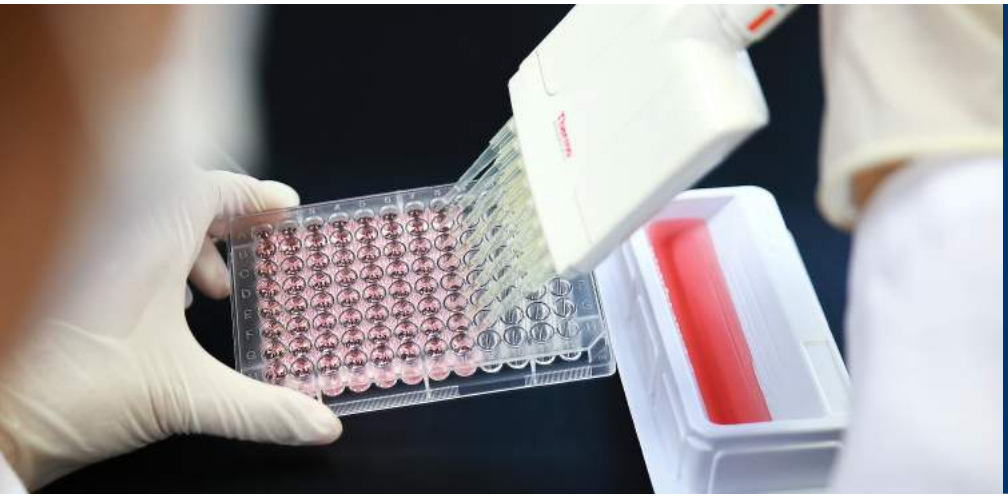
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Strip tube

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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.

1. 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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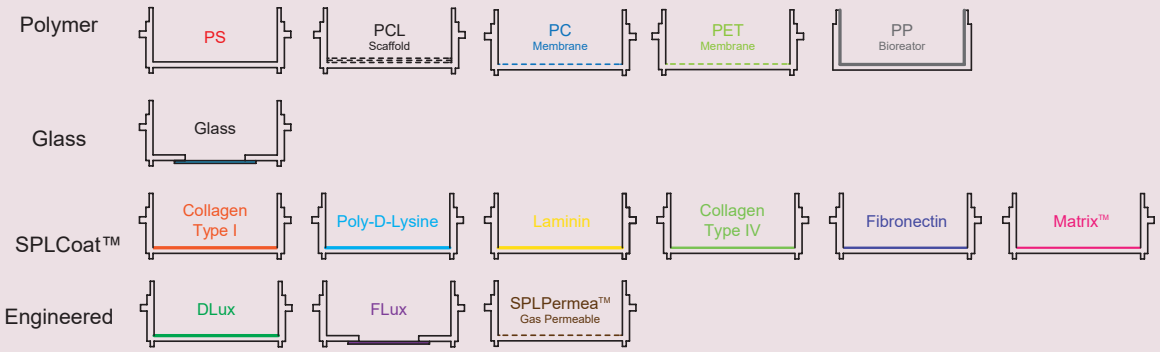
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For more than a century, cell culture researches have provided humanity with deep and fascinating insights into nature. Being a common laboratory technique, cell culture is one of the most critical aspects in biology-related researches and industries.

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.
Polycaprolactone (PCL)	Biodegradable polymer suitable for cell attachment, provided in 3-Dimensionsal structure.
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	PCL	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

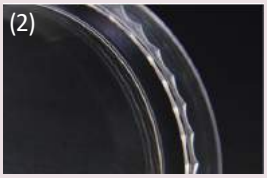
SPL Cell Culture Wares are ergonomically designed to maximize safety, efficiency and convenience in cell culture experiments, to meet the demands of all users.

(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		●		●	●			●	●

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 12 types, depending on the culture scale and the cap type (and surface treatment). Cell growth area for T25, T75 and T175 are 25 cm^2, 75 cm^2, and 175 cm^2, 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: 25 cm^2, 75 cm^2, 175 cm^2
- Venting position for 175 cm^2 plug cap model (Cat. No. 72175, 73175)
- Non-treated models (for suspension culture) are provided with the white caps
- Non–pyrogenic
- Non–cytotoxic
- DNase / RNase–free
- Human DNA–free

Type	Cat. No.	Material (Body / Cap)	Cap Type	Growth Area (cm^2)	Working Vol. (ml)	Total Vol. (ml)	Surface Treatment	Sterile	Packaging
Cell Culture Flask 25 cm^2									
	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 cm^2									
	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 cm^2									
	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

For surface coated Cell Culture Flasks (SPLCoat™- Collagen type I & IV, Poly-D-Lysine, Laminin, Fibronectin, Matrix™) → (18 - 24p)





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™) → (18 - 24p)



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

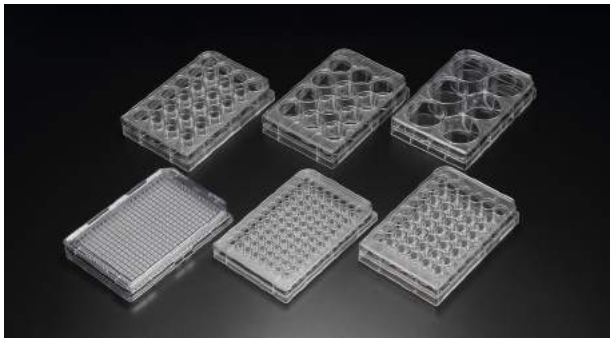
Cell Culture Plate 96well

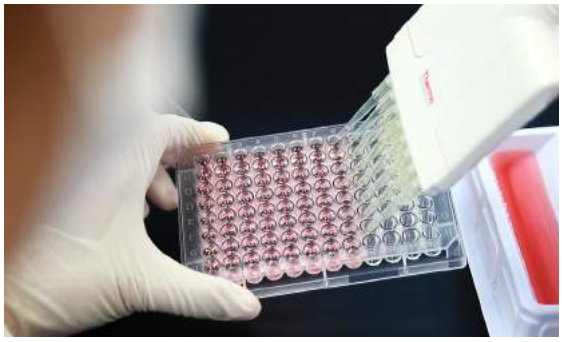
	30096	PS	85.40 x 127.60 x 14.40	Flat	6.50 x 10.80	0.33	0.20	+	+	1 / 50
	31096	PS	85.40 x 127.60 x 14.40	Flat	6.50 x 10.80	0.33	0.20	-	-	10 / 100
	32096	PS	85.40 x 127.60 x 14.40	Flat	6.50 x 10.80	0.33	0.20	-	+	1 / 50
	34096	PS	85.40 x 127.60 x 14.40	Round	6.92 x 12.00	0.66	0.20	+	+	1 / 50
	34196	PS	85.40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

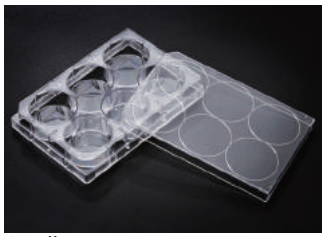
Cell Culture Plate 384well

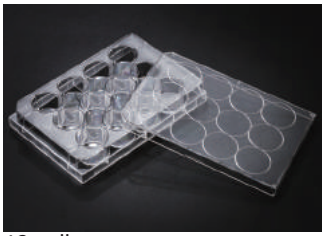
	37384	PS	85.40 x 127.60 x 14.40	Flat	3.00 x 11.50	0.07	0.10	+	+	10 / 40
	38384	PS	85.40 x 127.60 x 14.40	Flat	3.00 x 11.50	0.07	0.10	-	+	10 / 40

For surface coated Cell Culture Plates (SPLCoat™ - Collagen type I & IV, Poly-D-Lysine, Laminin, Fibronectin, Matrix™) → (18 - 24p)

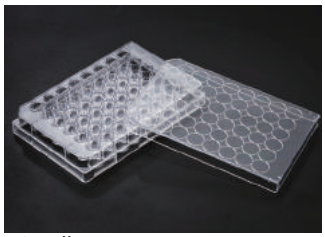




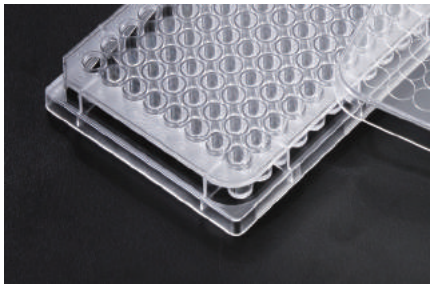

6well


12well


24well

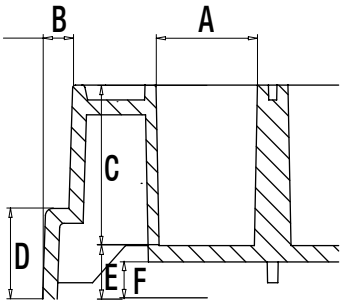

48well

96well



Flat Type(F-Type)



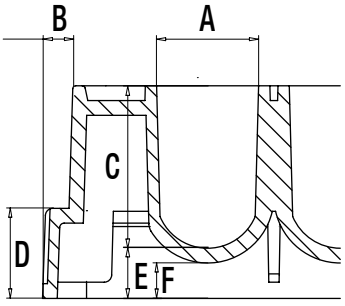


	A	B	C	D	E	F
F- Type	Ø6.92	2.06	10.8	6.1	3.6	2.5
U-Type	Ø6.92	2.06	11	6.1	3.1	2.4



Round Type(U-Type)





Black & White Plate, Square Dish

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 and 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

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, Roller Bottle

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	Well 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

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

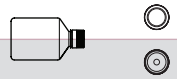
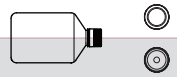
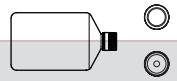
SPL Life Sciences provides Cell Culture Square Bottles, suitable for animal cell and microbial suspension culture.
The shape of the bottle is specially designed to cause turbulent flow of media when physically swirled for more effective solution mixing and oxygen supply. The square bottles are provided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



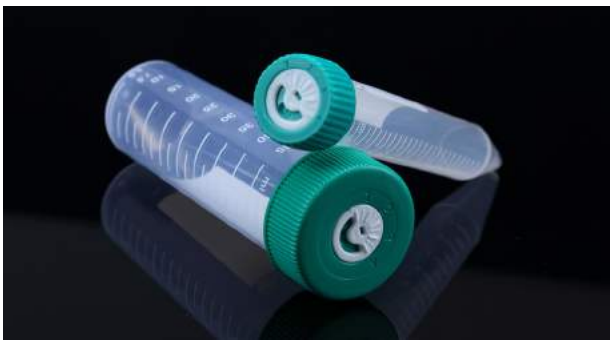
Cell Culture Square Bottle

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

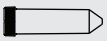
SPL Bioreactors are designed mammalian cells and microorganism under suspension condition. Tubes are sterilized after complete packaging to eliminate contamination. The air circulation within the reactor can be controlled by the dial on the center of the reactor cap, providing 4 levels of ventilation.

- 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 Englbreth-Holm-Swarm (EHS) mouse tumor cells that is frequently used for stem cell culture playing critical roles in cell diffentiation, 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

SPLCoat™

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	+	10 / 20
	21060	PS	60.00 x 15.00	52.80 x 12.80	21.50	5.00	+	10 / 20
	21100	PS	90.00 x 20.00	86.26 x 17.70	57.50	12.50	-	10 / 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

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	+	10 / 20
	22060	PS	60.00 x 15.00	52.80 x 12.80	21.50	5.00	+	10 / 20
	22100	PS	90.00 x 20.00	86.26 x 17.70	57.50	12.50	-	10 / 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

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	+	10 / 20
	23060	PS	60.00 x 15.00	52.80 x 12.80	21.50	5.00	+	10 / 20
	23100	PS	90.00 x 20.00	86.26 x 17.70	57.50	12.50	-	10 / 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

SPLCoat™

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	+	10 / 20
	24060	PS	60.00 x 15.00	52.80 x 12.80	21.50	5.00	+	10 / 20
	24100	PS	90.00 x 20.00	86.26 x 17.70	57.50	12.50	-	10 / 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

SPLCoat™

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	+	10 / 20
	25060	PS	60.00 x 15.00	52.80 x 12.80	21.50	5.00	+	10 / 20
	25100	PS	90.00 x 20.00	86.26 x 17.70	57.50	12.50	-	10 / 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

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

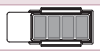
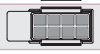
Dish

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	+	10 / 20
	27060	PS	60.00 x 15.00	52.80 x 12.80	21.50	5.00	+	10 / 20
	27100	PS	90.00 x 20.00	86.26 x 17.70	57.50	12.50	-	10 / 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

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

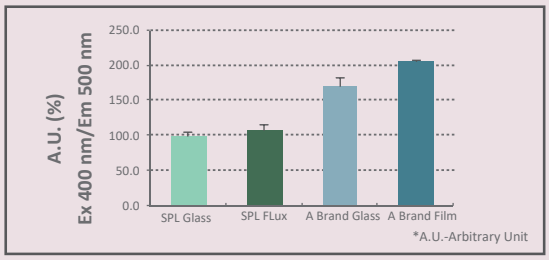


Fig.1. Auto-fluorescence at 400 nm
SPL vs. A Brand

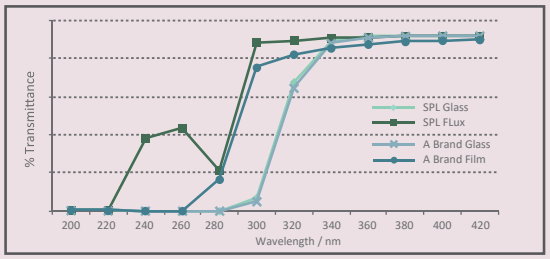


Fig.2. % Transmittance

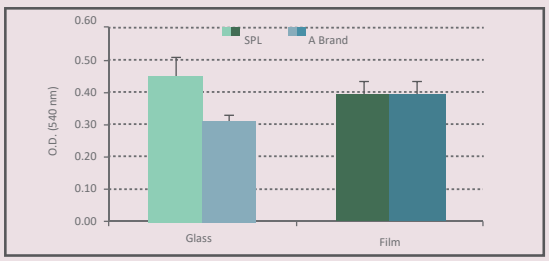


Fig.3. Adhesion of L-929 cells
SPL vs. A Brand

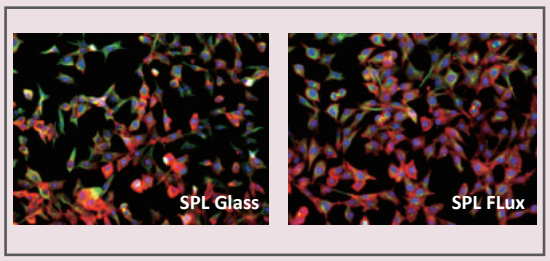
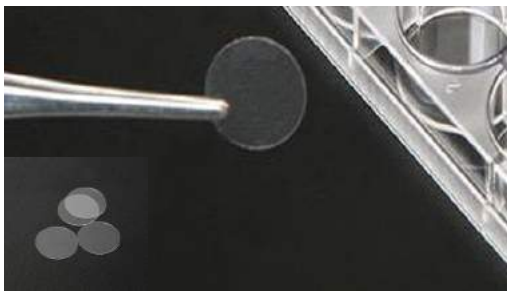


Fig.4. Fluorescence cellular images on SPL Glass/FLux

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

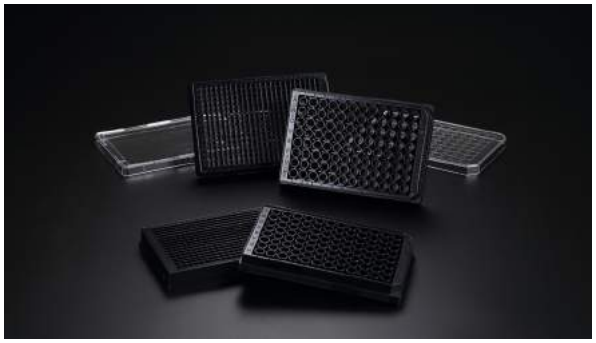
Type	Cat. No.	Material	Fits into	Dimensions (mm)	Sterile	Packaging
○	20009	FLux	48well	9.00	+	100 / 200
○	20012	FLux	24well	12.00	+	100 / 200
◯	20018	FLux	12well	18.00	+	100 / 200
◯	20025	FLux	6well	25.00	+	50 / 200

Black Plate, White 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	0.40	0.20	-	+	1 / 20
	33296	PS / FLux	Flat	85.40 x 127.60 x 14.40	6.50 x 10.80	0.33	0.40	0.20	+	+	1 / 20
	33396	PS / PS	Flat	85.40 x 127.60 x 14.40	6.50 x 10.80	0.33	0.40	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

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	0.40	0.20	-	+	1 / 10
	33596	PS / FLux	Flat	85.40 x 127.60 x 14.40	6.50 x 10.80	0.33	0.40	0.20	+	+	1 / 10
	33696	PS / PS	Flat	85.40 x 127.60 x 14.40	6.50 x 10.80	0.33	0.40	0.20	+	+	5 / 25

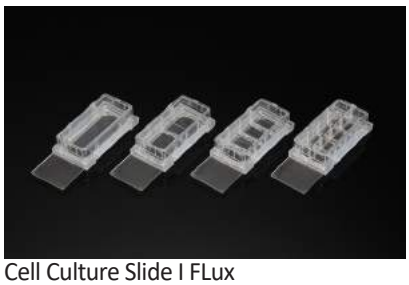
SPL's Cell Culture Slides are designed for various cell-based experiments, including but not limited to virus and toxicity tests and immunocytological experiments. Cell Culture Slides provide removable chamber that enables cell growth directly on the microscopic slide, convenient for staining and microscopic 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 CO_2 incubators

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



Type	Cat. No.	Material (Chamber / Slide / Holder)	Chamber Color	Growth Area / Well (cm^2)	Working Vol. / Well (ml)	Surface Treatment	Sterile	Packaging
1well								
	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 I FLux


Cell Culture Slide I


Cell Culture Slide I Glass


Cell Culture Slide II Glass

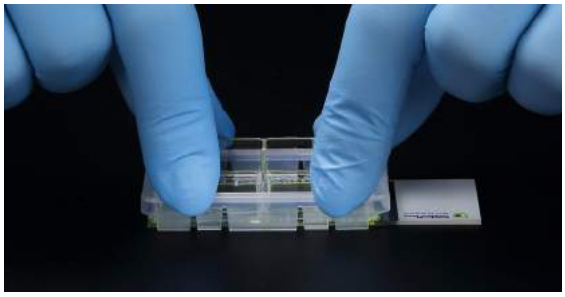

Cell Culture Slide II


Cell Culture Slide I & II Holder

Type	Cat. No.	Material (Chamber / Slide / Holder)	Chamber Color	Growth Area / Well (cm^2)	Working Vol. / Well (ml)	Surface Treatment	Sterile	Packaging
1well								
	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™ 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 CO_2 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

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 Ø
- Plate size: 6well Plate (Cat. No. 30106, 30206, 230106, 230206)
- Hole size: 13 Ø / 20 Ø
- Insert Type: Cat. No. 100351

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

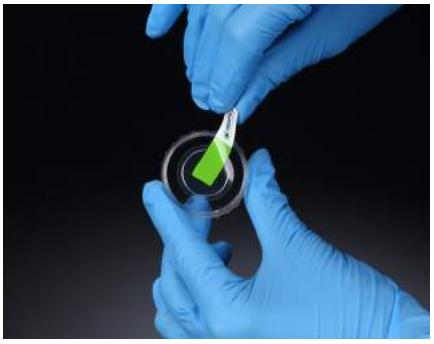


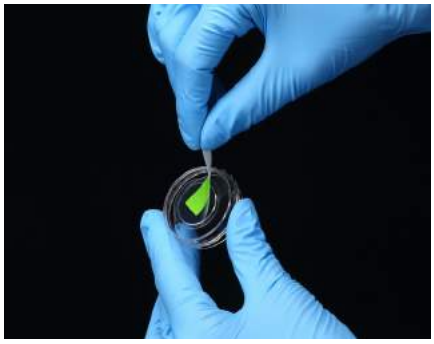
Confocal Dish

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 Ø	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 Ø	3.14	3.00	-	+	5 / 100
	102350	PS / Glass	Black	35.00 x 10.00	34.30 x 9.30	13 Ø	1.33	3.00	-	+	5 / 100
	103350	PS / Glass	Black	35.00 x 10.00	34.30 x 9.30	20 Ø	3.14	3.00	-	+	5 / 100
	200350	PS / Glass	Clear	35.00 x 10.00	34.30 x 9.30	13 Ø	1.33	3.00	+	+	5 / 50
	210350	PS / FLux	Clear	35.00 x 10.00	34.30 x 9.30	13 Ø	1.33	3.00	+	+	5 / 50
	211350	PS / FLux	Clear	35.00 x 10.00	34.30 x 9.30	20 Ø	3.14	3.00	+	+	5 / 50
	212350	PS / FLux	Black	35.00 x 10.00	34.30 x 9.30	13 Ø	1.33	3.00	+	+	5 / 50
	213350	PS / FLux	Black	35.00 x 10.00	34.30 x 9.30	20 Ø	3.14	3.00	+	+	5 / 50

Confocal Plate

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



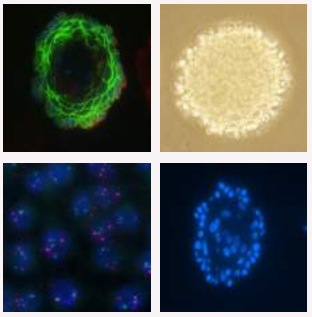




Cells, cultured *in vitro* such as cell culture dish and flask, tend to show significantly different behaviors and reactions, compared to the *in vivo* culture. Therefore, *in vitro* studies most often do not fully correspond to the circumstances occurring around cells in a living organism, limiting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

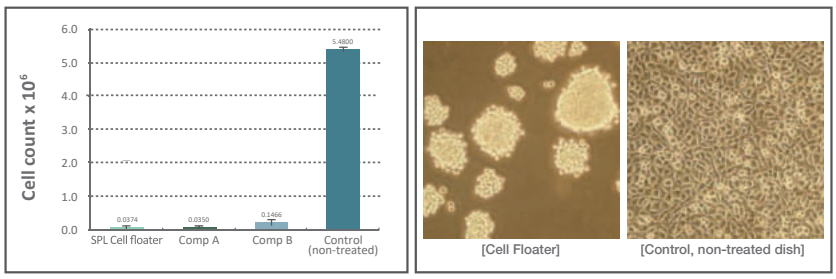
- Spheroids improve the relevance of *in vitro* results.
- Spheroids serve as biological models of native tissues or engineered solutions.
- Spheroids are used as building blocks to form tissues.
- Spheroids in concert with other aggregated cell shapes allow for complex tissue architecture studies.

	Surfaces		Materials					
	Cell Culture-Treated	Non-Treated	PCL	PS	PP	PET	HDPE	PTFE
Spheroid Fonming Unit		•			•	•	•	•
3D Cell Culture Plate	•		•	•				
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	+	10 / 20
	26060	PS	60.00 x 15.00	52.80 x 12.80	21.50	5.00	+	10 / 20
	26100	PS	90.00 x 20.00	86.26 x 17.70	57.50	12.50	-	10 / 10

Cell Floater 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
	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	85.40 x 127.60 x 14.40	6.50 x 10.80	0.33	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, 3D Cell Culture Plate

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

SPL's 3D Cell Culture products provide three-Dimensionsal culture environment for cells, enabling maintenance of cells in *in vivo*-like conditions. With biodegradable polymer PCL (Polycaprolactone) used as scaffolds, these products are useful in tissue engineering related researches.

- Packed in cell culture-treated cell culture plates
- PCL (polycaprolactone) scaffold

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



3D Cell Culture Plate

Type	Cat. No.	Material (Plate / Scaffold)	Type	Plate Dimensions w x l x h (mm)	Scaffold Dimensions d x h (mm)	Fiber Diameter (µm)	Well Dimension (mm)	Working Vol. (ml)	Pore Width (µm)	Sterile	Packaging
	39112	PS / PCL	6 scaffolds / 12well plate	85.40 x 127.60 x 20.20	20.00 x 2.00	300.00	22.10	2.00	300.00	+	Individual

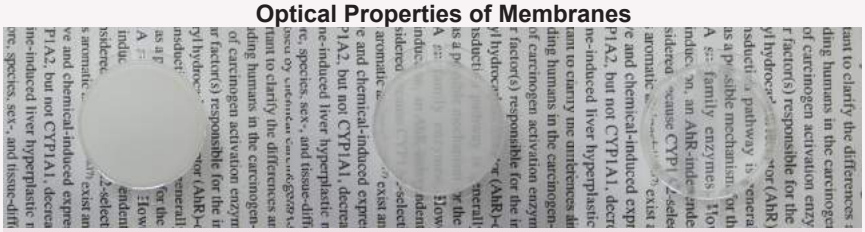
SPLInsert™ products closely mimic *in vivo* environment, providing improved attachment, growth and differentiation of various cell types. With their permeable property, inserts are convenient and effective tools for diverse research areas, such as transportation and invasion studies. Specially selected 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)	•		•			•
Multi Insert Dish		•	•			•



Polycarbonate (PC): stain-free, low background interference
Polyethylene terephthalate (PET): retainment 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, Multi Insert Dish

SPLInsert™

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

Multi Insert Dish is designed to study the interactions between different cell populations in a single dish, provided with 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
- Non-treated
- Side mesh available for signal exchanges between inserts (Cat. No. 911605)
- Bottom mesh available for signal exchange between inserts and bottom (Cat. No. 911606)
- Groove bottom for magnetic stirrer positioning (Cat. No. 911607)



Cat. No. 911605



Cat. No. 911606



Cat. No. 911607

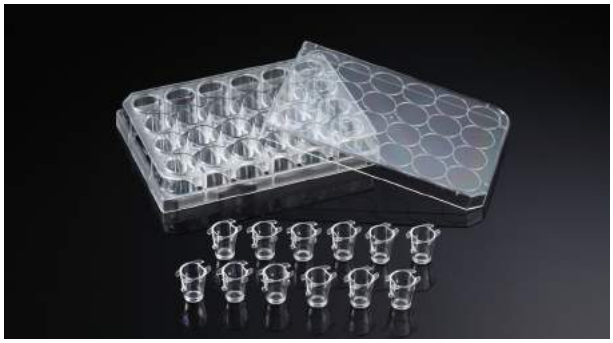
Multi Insert Dish

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	Sterile	Packaging
	911605	Nylon	60.00 x 20.00	53.00 x 18.00	1.77	15.00	-	+	+	9 / 18
	911606	PC	60.00 x 20.00	53.00 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

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 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

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, 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 (CO_2, O_2)
- Leakage and evaporation tested
- Transparent for microscopic observation and imaging
- Low auto-fluorescence
- High light transmission
- Ergonomic design for easy handling and minimal contamination

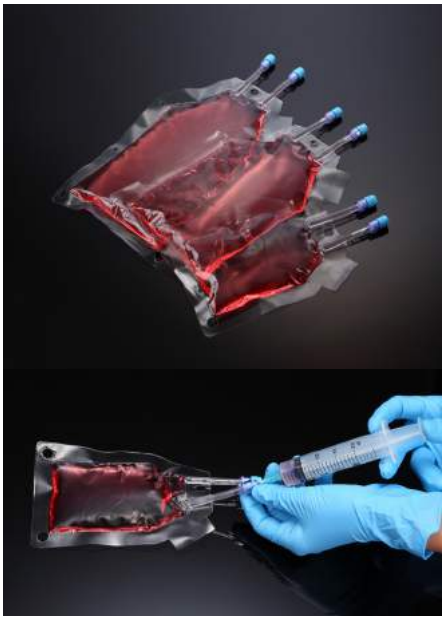
- Non–pyrogenic
- Non–cytotoxic
- DNase / RNase-free
- Human DNA-free



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

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 CO_2 incubator.



- Transparent for microscopic observation
- Compliant with USP guideline (USP class VI tested)
- Gas-permeability tested (CO_2, O_2)
- 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 cm^2
- 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

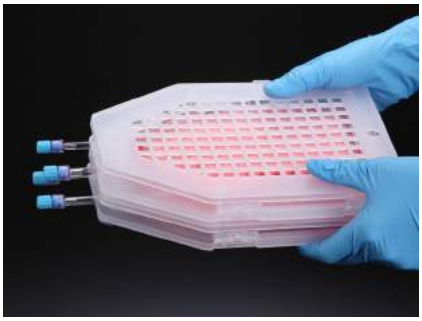
Type	Cat. No.	Material	Dimensions w x l (mm)	Working Vol. (ml)	Sterile	Packaging
	200110	Permea™ Film	162.00 x 115.00	100.00	+	15
	200125	Permea™ Film	223.00 x 146.00	250.00	+	10
	200150	Permea™ Film	254.00 x 154.00	500.00	+	5

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

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







SPLPermea™ Rack

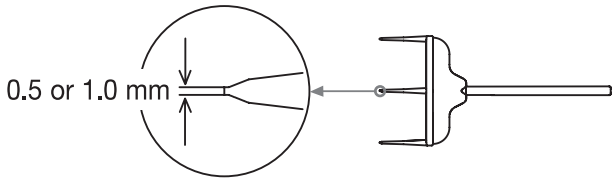
Type	Cat.No.	Material	Dimensions w x l (mm)	Sterile	Packaging
	200425	PP	234.99 x 155.84	-	5

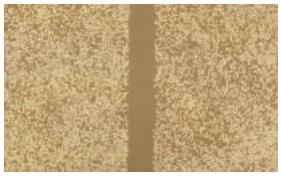
SPLScar™ Products are designed for a wide range of cell studies, including cell migration, wound healing, and cancer metastasis, providing highly uniform and reproducible conditions to enhance the quality of your experiment.

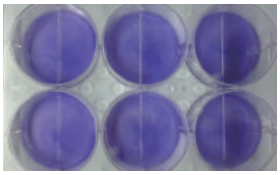
SPLScar™ Scratcher ensures the uniformity and reproducibility of the possible products used in cancer metastasis, wound healing and cell migration research. SPLScar™ Scratcher consists of a lid with identical holes and a scratcher, suitable for use in 6well or 24well configurations

- 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

- 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 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.

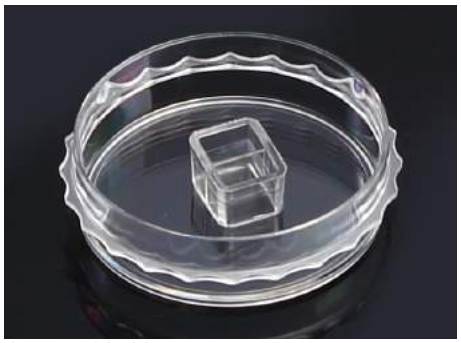
- Cell Culture Dish (Cat. No. 201935)
- Confocal Dish (Cat. No. 201936 - Glass / Cat.No. 201937 - FLux)
- Confocal Plate (Cat. No. 201916)
- Cell Culture Slide
  (Cat. No. 201904 - Glass / Cat. No. 201914 - DLux / Cat. No. 201934 - FLux)
- Individually packaged (Cat. No. 201902 - 2well / Cat. No. 201903 - 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

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	•	•	•

- 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
- 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

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

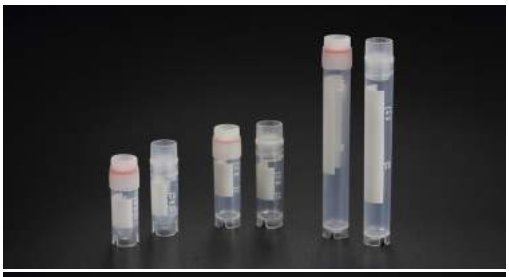
- Center well type (Cat. No. 20260, 20261)
- External grip for handling
- Compliant with USP guideline (USP class VI tested)
- Compliant with ANSI guideline
- Mouse Embryo Assay (MEA) Test passed
- Non–pyrogenic
- Non–cytotoxic
- DNase / RNase-free
- Human DNA–free



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

SPL Cryopreservation products are store cells, tissues, specimens, microbiological samples, nucleic acid and protein samples in extreme temperatures ranging from -196°C to +121°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	Cap Type	Bottom Type	Total Vol. (ml)	Extenal Dimensions d x h (mm)	Sterile	Packaging
	43111	PP	External	Conical	1.20	13.10 x 42.50	+	50 / 500
	43021	PP	Internal	Conical	1.20	13.10 x 42.50	+	50 / 500
	43012	PP	External	Round	1.80	13.10 x 45.50	+	50 / 500
	43022	PP	Internal	Round	1.80	13.10 x 49.70	+	50 / 500
	43112	PP	External	Round	1.80	13.10 x 47.80	+	50 / 500
	43113	PP	External	Round	5.00	13.10 x 92.00	+	50 / 500
	43023	PP	Internal	Round	5.00	13.10 x 92.00	+	50 / 500
	43032	PP	Cap Insert	-	-	10.40	-	100 / 500

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

SPL Cryovial Racks are designed for handling and storage of Cryovials.

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





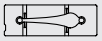
SPLFlow™ is designed for adherent cell culture under flow conditions. SPLFlow™ enables shear stress analysis by controlling the flow rate and exhibits high-resolution real-time microscopy of living cells and fixed cells.

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

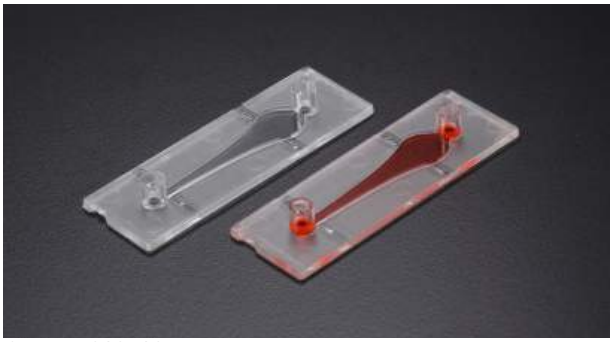
- Non–pyrogenic
- Non–cytotoxic
- DNase / RNase-free
- Human DNA-free

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

SPL Life Sciences provides various accessories for cell culture.

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 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. 1.5ml Microcentrifuge Tubes (Cat. No. 60015), Test Tubes (Cat. No. 40005), 5ml Tubes (Cat. No. 50005, 51005), 15ml Conical Tubes (Cat. No. 50015). Its unique design allows avoiding overflow and helps speedy filtration.

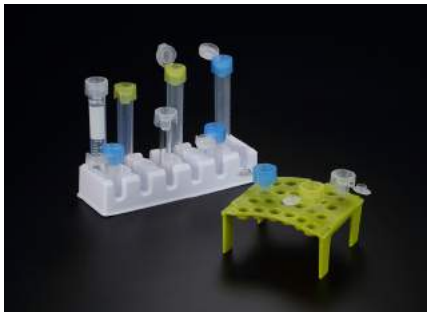
- Ideal for stem cell and tissue-derived primary cell preparation
- Fits into from 1.5 ml Microcentrifuge Tubes (Cat. No. 60015) to 15 ml Conical Tubes (Cat. No. 50015)
- 3 different pore size: 40, 70 or 100 µm

- 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
	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 Scraper

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 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



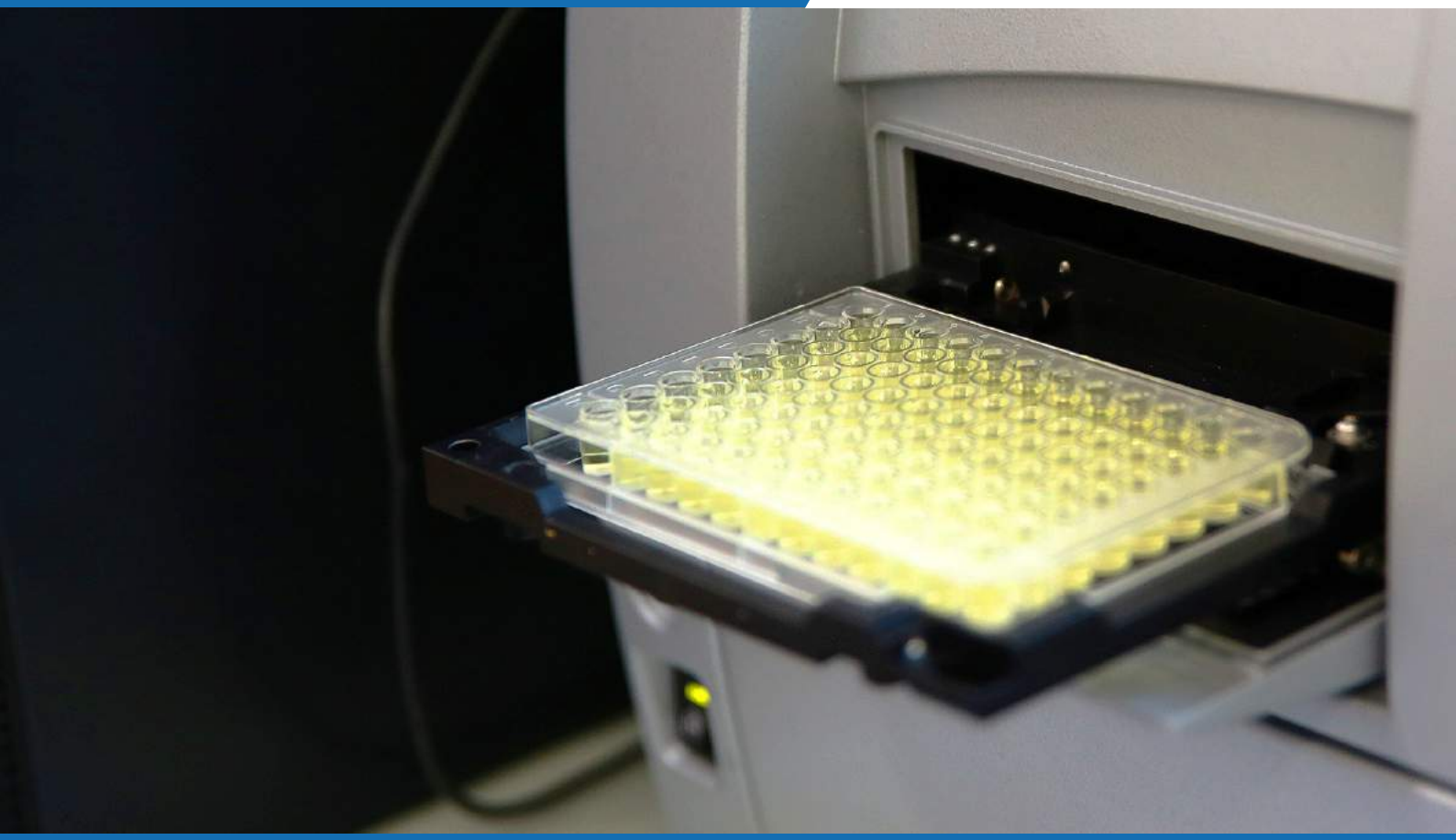


Cat. No. 90031 / 90021



Cat. No. 90030 / 90020

2. 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).

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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, Immunoplate Strip

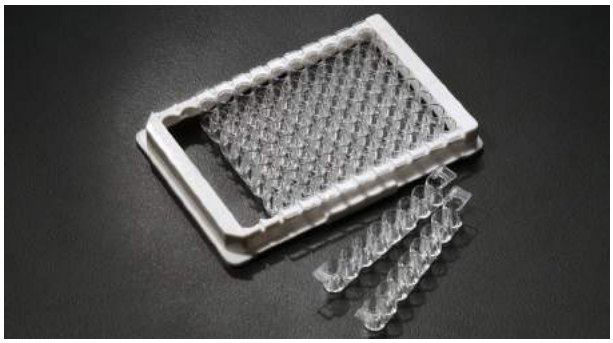
- Plate type (96well plate)
- Lid not included
- 2 types bottom: Flat or Round
- Developed for immunoassay (ELISA) and general binding assay
- Uniform surface homogeneity
- Raised rims on the wells
- Alphanumeric labeling
- Designed for easy handling and automation



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	400.00	350.00	10 / 100
	32396	PS	Flat	Medibinding	85.40 x 127.60 x 14.40	0.33	400.00	350.00	10 / 100
	32496	PS	Flat	Unibinding	85.40 x 127.60 x 14.40	0.33	400.00	350.00	10 / 100
	32596	PS	Flat	Multibinding	85.40 x 127.60 x 14.40	0.33	400.00	350.00	10 / 100
	32696	PS	Round	Maxibinding	85.40 x 127.60 x 14.40	0.66	400.00	350.00	10 / 100
	32796	PS	Round	Unibinding	85.40 x 127.60 x 14.40	0.66	400.00	350.00	10 / 100

- 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	400.00	350.00	10 / 100
	38196	PS	Medibinding	85.40 x 127.60 x 14.40	0.33	400.00	350.00	10 / 100
	38496	PS	Unibinding	85.40 x 127.60 x 14.40	0.33	400.00	350.00	10 / 100
	38596	PS	Multibinding	85.40 x 127.60 x 14.40	0.33	400.00	350.00	10 / 100

Immunoplate Strip Single Well, Black & White Immunoplate

- 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	400.00	350.00	10 / 100
	38396	PS	Medibinding	85.40 x 127.60 x 14.40	0.33	400.00	350.00	10 / 100
	38696	PS	Unibinding	85.40 x 127.60 x 14.40	0.33	400.00	350.00	10 / 100
	38796	PS	Multibinding	85.40 x 127.60 x 14.40	0.33	400.00	350.00	10 / 100

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	400.00	350.00	10 / 100
	31496	PS	Black	Maxibinding	85.40 x 127.60 x 14.40	0.33	400.00	350.00	10 / 100
	31196	PS	White	Unibinding	85.40 x 127.60 x 14.40	0.33	400.00	350.00	10 / 100
	31296	PS	Black	Unibinding	85.40 x 127.60 x 14.40	0.33	400.00	350.00	10 / 100

B & W Immuno Strip, 384 HT Plate

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.



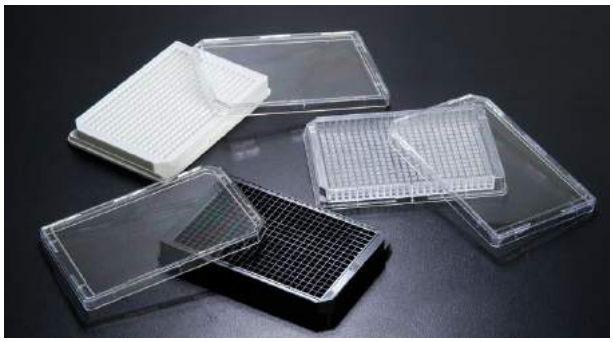
- Suitable for fluorescence and luminescence assays
- 2 surface types
- 8well strip type
- Lid not included
- Flat bottom
- Raised rims on the wells
- Alphanumeric labeling
- Designed for easy handling and automation

B & W Immunoplate Strip

Type	Cat. No.	Material	Well Color	Surface Type	External Dimensions w x l x h (mm)	Bottom Surface Area (cm²)	Total Vol. (µl)	Working Vol. (µl)	Packaging
	31796	PS	White	Maxibinding	85.40 x 127.60 x 14.40	0.33	400.00	350.00	10 / 100
	31896	PS	Black	Maxibinding	85.40 x 127.60 x 14.40	0.33	400.00	350.00	10 / 100
	31596	PS	White	Unibinding	85.40 x 127.60 x 14.40	0.33	400.00	350.00	10 / 100
	31696	PS	Black	Unibinding	85.40 x 127.60 x 14.40	0.33	400.00	350.00	10 / 100

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 (cm²)	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

SPL Life Sciences provides immunotubes for diagnostics and immunological purposes.



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

Immunotube

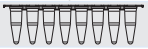
Type	Cat. No.	Material	Surface Type	External Dimensions d x h (mm)	Total Vol. (ml)	Packaging
	43005	PS	Unibinding	12.00 x 75.00	5.00	250 / 2,000
	43015	PS	Maxibinding	12.00 x 75.00	5.00	250 / 2,000

PCR tube, UVMax™

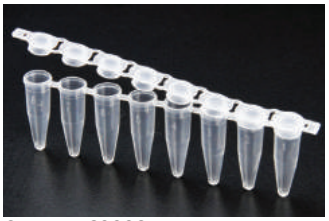
SPL provides 0.2 ml PCR tube in a standardized form, applicable to almost all laboratory PCR equipment. The wall of the PCR tube is designed relatively thin to optimally conduct heat to the reaction solution. The tight sealing between the tube body and its cap ensures minimal evaporation and prevents 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

PCR Tube

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


Cat. No. 60001


Cat. No. 60008


Cat. No. 60011


Cat. No. 60018

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 (96well) allows for High-Throughput Screening (HTS) process and eliminates the need for expensive and fragile quartz / glass-type plates.

- 96well 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



UVMax™

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. (µl)	Packaging
	33096	PS / Film	96well	Flat	85.40 x 127.60 x 14.40	0.33	400.00	10 / 40

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

3. Microbiology

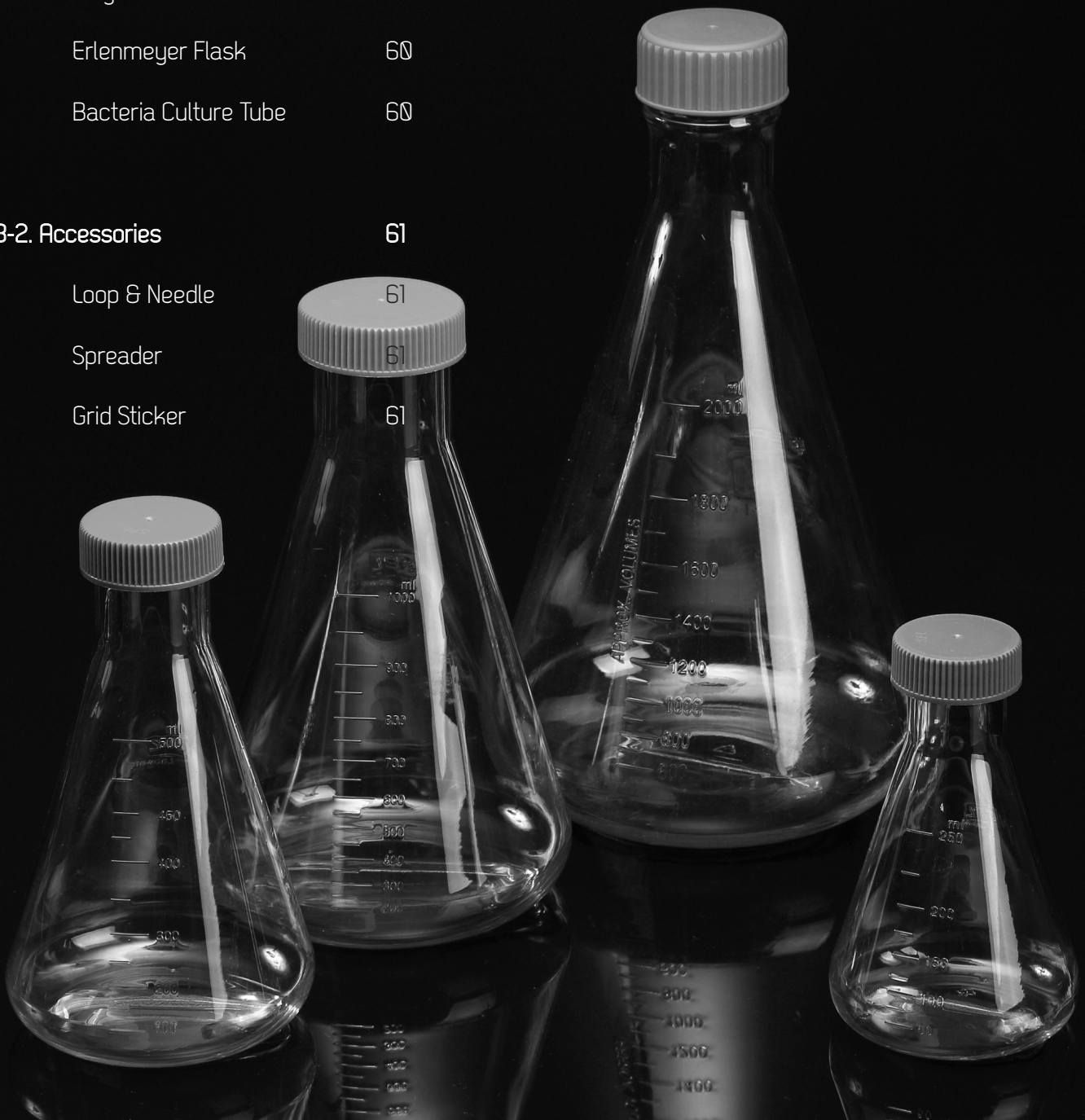


SPL Life Sciences provides products that are feasible to all applications in microbiology, including dishes/plates for solid culture, and flasks for suspension culture. We offer a wide range of culture vessels, i.e., growth area and volume. Some of our products contain grids on the bottom to indicate 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.

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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.

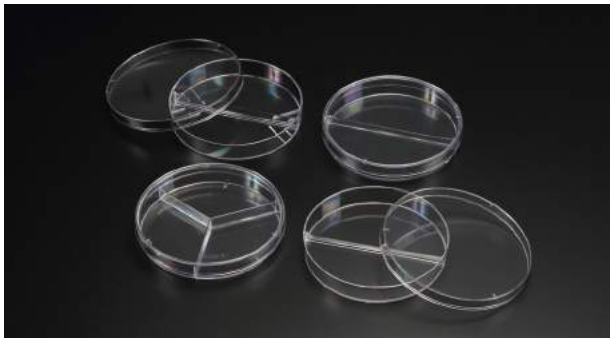


- Crystal grade Polystyrene
- Double packaging with 10090 (Cat. No. 10093)
- External grip for handling (Cat. No. 10035, 10050, 10060, 10101)
- Gridded bottom for counting (Cat. No. 10095, 10096)

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 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 and 3-zoned Tri-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

RODAC Plate, Square Dish, Tray 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 15.00	52.80 x 12.80	21.50	-	+	20 / 500
	10063	Flat	59.50 x 15.80	54.90 x 8.50	21.50	-	+	20 / 500

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

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.



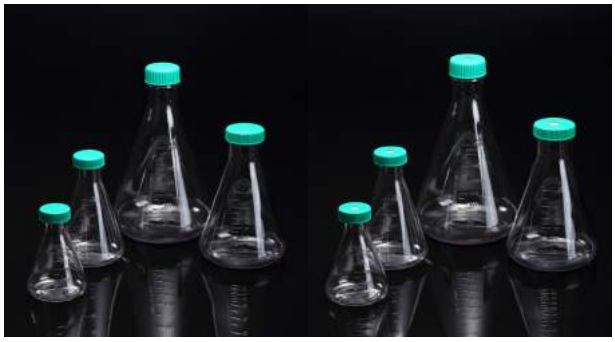
Tray Plate

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

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



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

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

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

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

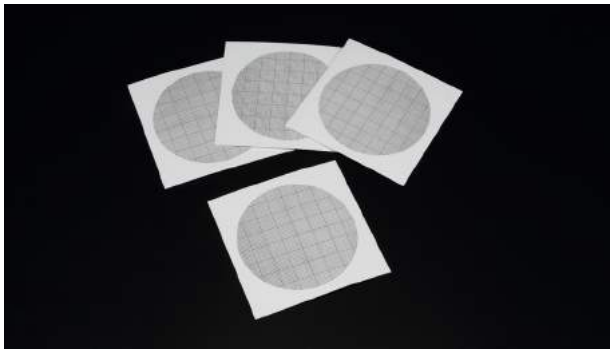


Spreader

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

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

4. 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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Serological Pipette

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.

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

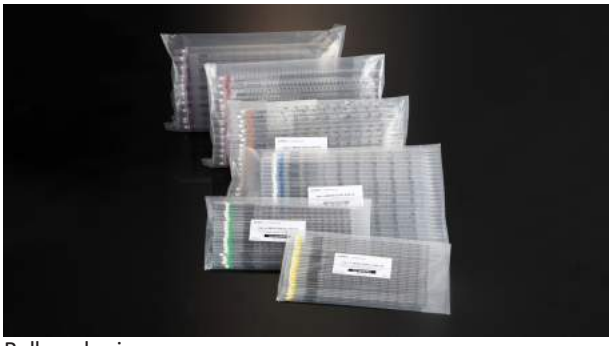
Aspiration Pipette



Serological Pipette



Individual packing



Bulk packaging

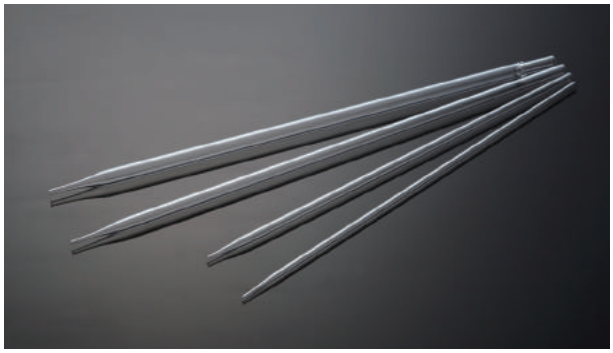


Cat. No. 93010, 91110

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

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

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

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 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), 15 ml conical tubes (Cat. No. 51015, 51115)
- Skirted, self-standing type (Cat. No. 50250)
- For high speed centrifugation (Cat. No. 50040)
- Provided in racks (Cat. No. 50115, 50150)
- 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

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, 5 ml Snap Tube

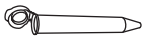
Snap tubes are widely used in laboratories for various reasons, from simply storing samples to conducting high-speed centrifugation. Snap tubes are especially helpful for one can open and close the tube with just one hand.

- 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)

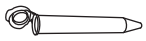
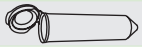
- Non–cytotoxic
- Non–pyrogenic
- DNase / RNase–free
- Human DNA–free



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 in sleeve / 500
	50415	Skirted	PP	16.00 x 120.00	15.00	-	+	50 in sleeve / 500
	50450	Conical	PP	28.00 x 116.00	50.00	9,000 x g	+	25 in sleeve / 500
	50650	Skirted	PP	28.00 x 117.00	50.00	-	+	25 in sleeve / 500

Snap Tube - In racks

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

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 5ml 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, 54105)
- Amber type (Cat. No. 54005, 54105)
- 5 ml Snap Tube Adapter for 15 ml rotor (Cat. No. 52005)

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



5 ml Snap Tube

Type	Cat. No.	Material	External Dimensions d x h (mm)	Total Vol. (ml)	RCF Rating	Sterile	Packaging
	50005	PP	20.00 x 62.00	5	25,000 x g	-	100 in sleeve / 200
	50105	PP	20.00 x 62.00	5	25,000 x g	+	100 in sleeve / 200

Amber 5 ml snap Tube

	54005	PP	20.00 x 62.00	5	25,000 x g	-	100 in sleeve / 200
	54105	PP	20.00 x 62.00	5	25,000 x g	+	100 in sleeve / 200

5 ml Screw Tube, Test 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)

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



5 ml Screw Tube

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

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, 40114)
- 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	Irradiation	25 / 500
	41014	PP / LDPE	14.00	17.00 x 95.40	3,000 x g	E.O.	25 / 500

2 ml Vial, 1.5 ml Strip Tube

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, 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 (1.5 ml, 2.0 ml)
- 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

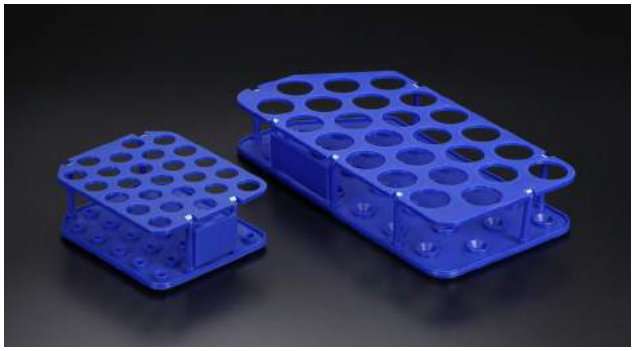
Microcentrifuge Tube

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	-	500 / 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

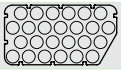
SPL is also dedicated to developing and manufacturing various products for sample storage.

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

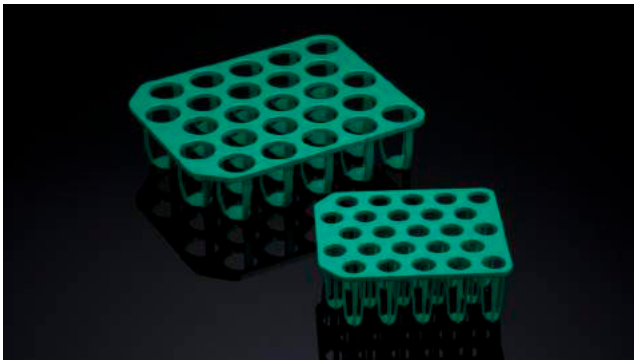


Conical Tube Rack I

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

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

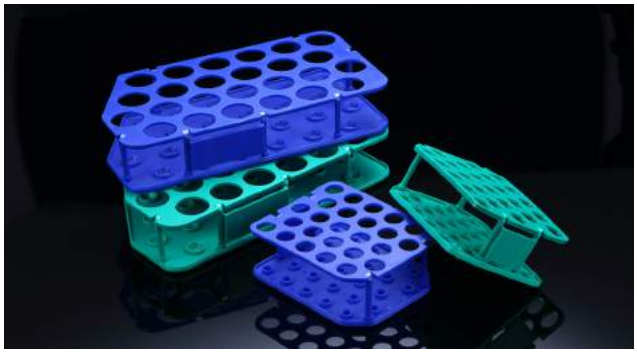


Conical Tube Rack II

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

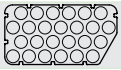
Snap Tube Rack, 2well Conical Tube Rack

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).

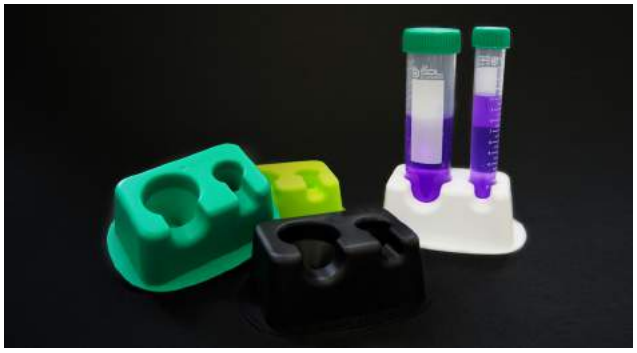


- Excellent stackability
- Numeric labeling
- 2 colors: Blue, Green

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 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

5 ml Tube Rack, Stacker Microtube 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

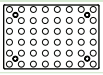
Type	Cat. No.	Material	Description	Packaging
	61012	PP	2 x 6 (12 Holes)	12

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

1.5 ml Strip Tube Rack, Microtube 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.

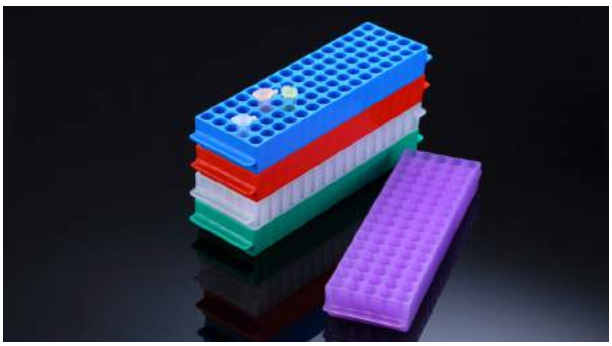


- Stackable feature for space saving
- 2 Colors: Green, Violet
- Non-autoclavable

1.5 ml Strip Tube Rack

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

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

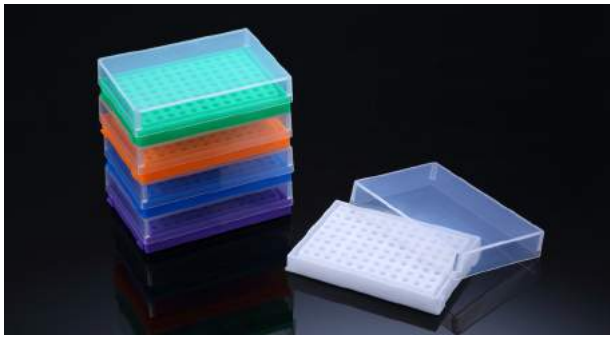


- Numeric labeling
- 5 colors: White, Blue, Green, Red, Purple
- Autoclavable

Microtube Rack

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

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

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 ~ +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

Wide-Mouth Bottle

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.

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

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, Media Bottle

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

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

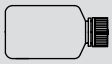
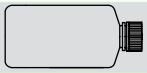
Narrow-Mouth Bottle (HDPE, Amber) | Bottles



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)

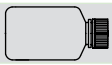
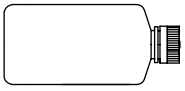
Type	Cat. No.	Material (Bottle / Cap)	Total Vol. (ml)	Packaging
	516001	HDPE / PP	4.00	12 / 72
	516002	HDPE / PP	8.00	12 / 72
	516003	HDPE / PP	15.00	12 / 72
	516004	HDPE / PP	30.00	12 / 72
	516005	HDPE / PP	60.00	12 / 72
	516006	HDPE / PP	125.00	12 / 72
	516007	HDPE / PP	250.00	12 / 72
	516008	HDPE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



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

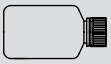
Narrow-Mouth Bottle (PP)

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

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

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 ~ 121℃

- 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

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)
- Supplied sterile in packs of 1 or 5

Reservoir

Type	Cat. No.	Material	Color	Design	Working Vol. (ml)	Sterile	Packaging
	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

Storage Plate 96well, Omni Box, Autoclaving Jar

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 ~ + 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	0.40	-	-	10 / 100

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

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

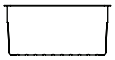
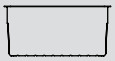
Mouse Cage, 5 ml Snap Tube Adapter, Strip tube

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

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

- Excellent durability



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

Strip Tubes are designed for storage of IPG strips after 2D electro-phoresis.



Strip Tube

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

Water Sample Bottle, MOUZIP®

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

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

5. 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.

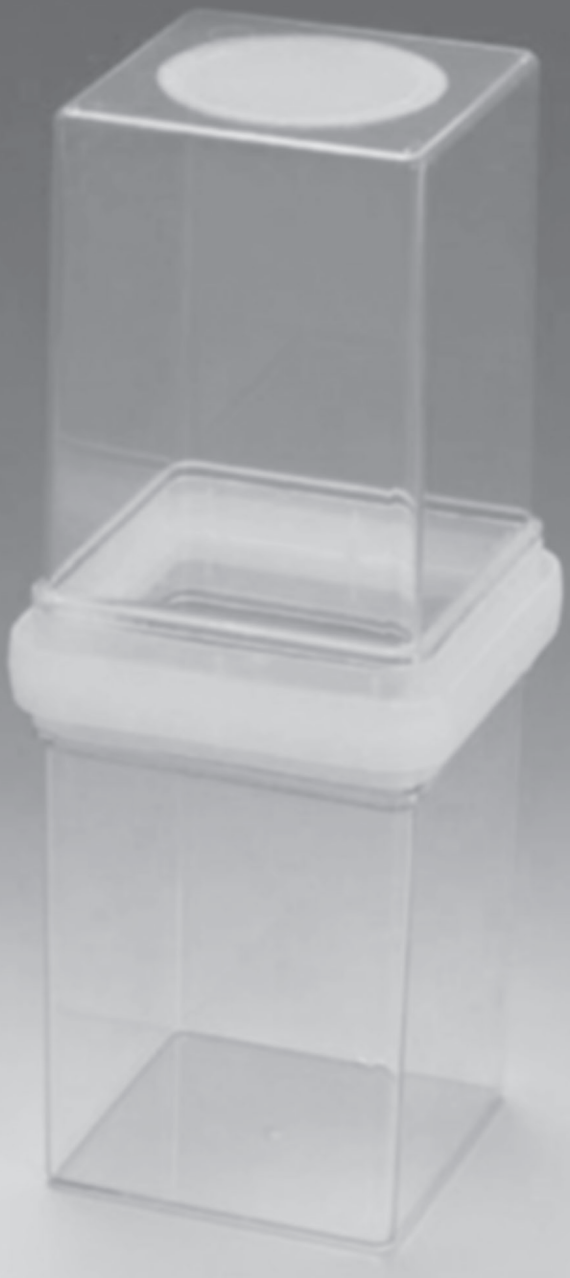
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Incu Tissues are ideal for plant tissue cultures.
As the sprout grows, another Incu Tissue can be connected to the top as an optional frame.



- Embossing on the closing edge of cover and jar
- Optional frame (Cat. No. 310074)
- 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 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 , II

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 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 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

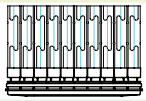
Type	Cat. No.	Material	External Dimensions d x h (mm)	Internal Dimensions-Body d x h (mm)	Internal Dimensions-Cap d x h (mm)	Sterile	Packaging
	310120	PP	120.00 x 80.00	103.00 x 78.60	101.00 x 10.20	-	400
	310121	PP	120.00 x 110.00	103.00 x 78.60	101.00 x 32.50	-	400

AraHarvest 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

Insect Breeding Dish & Jar, Box

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 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

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.



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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.

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

- Compatible with the pneumatic tube systems for hospitals (Cat. No. 410120)
- 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)

Specimen Cup & Bottle

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. 401060

Medical Container, Sample Tube

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)



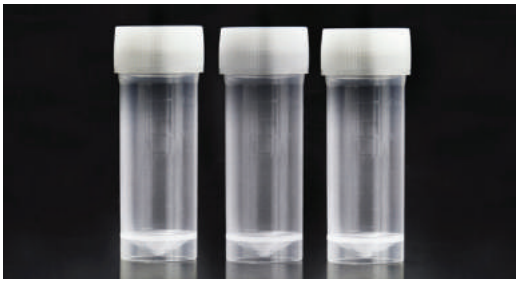


Medical Container

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

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



Sample Tube

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, Super Mega 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

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. Medical 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

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)

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



Cat. No. 40510, 400511



Cat. No. 400531, 400530



Cat. No. 401015

Cyto Pap Brush, Cyto Medical Brush, Vacuum Needle Holder

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

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

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	475.00	-	250 / 1,000

Sample Cup, Transport Tube, Transport Bottle

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

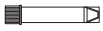
Type	Cat. No.	Material	Working Vol. (ml)	Packaging
	400730	PS	3.00	1,000 / 6,000

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

SPL Transport Bottles are specially designed for safe transport of pathogenic organisms and clinical specimens; they are tightly sealed to prevent possible leakage. Category A: An infectious substance which is transported in a form that if exposed, may cause permanent, lethal damage to living things, i.e., humans and animals.

- Packaging for infectious substances (UN2814 / 3373)
- 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.

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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59050 60

Wide-Mouth Bottle (Amber)
57020 78
57030 78
57060 78
57125 78
57250 78
57500 78

Wide-Mouth Bottle (PP)
58005 79
58020 79
58030 79
58031 79
58060 79
58125 79
58250 79
58500 79

Wide-Mouth Bottle (HDPE)
59020 78
59030 78
59031 78
59033 78
59060 78
59125 78
59250 78
59500 78

PCR Tube
60001 53
60008 53
60011 53
60018 53

Microcentrifuge Tube
60015 72
60017 72
....7260117
....72
61015 72
61017 72
61020 72
61120 72
62015 72
62017 72
64015 72

Strip Tube
60020 84

1.5 ml Strip Tube
60615 71
60715 71

5 ml Tube Rack
61012 75

1.5 ml Strip Tube Rack
61024 76

Stacker Microtube Rack
61048 75

Cryovial Rack
61050 42

Microtube Rack
61080 76

Cell Culture Flask
70025 10
70075 10
70125 10
70175 10
70225 10
70275 10
70325 10
70375 10
71175 10
72175 10
73175 10
74175 10

Erlenmeyer Flask
73000 ....16/60
73002 ....16/60
73250 ....16/60
73500 ....16/60
74000 ....16/60
74002 ....16/60
74250 ....16/60
74500 ....16/60

Omni Box
80010 83

Cryo Box
80025 42
80081 42
80181 42
80281 42

PCR Tube Rack
80096 77

Storage Box
80100 77
81081 77

Numerical Index

81100 77
84100 77

Mouse Cage
82018 84
82118 84

MOUZIP®
82101 85

Loop & Needle
90001 61
90010 61

Cell Scraper
90020 45
90021 45
90030 45
90031 45

Cell Lifter
90040 45

Spreader
90050 61

Grid Sticker
90100 61

Serological Pipette
91001 64
91002 64
91005 64
91010 64
91025 64
91050 64
93001 64
93002 64
93005 64
93010 64
93025 64
93050 64
95001 64
95002 64
95005 64
95010 64
95025 64
95050 64

Cuttingtop Pipette
91110 64

Micropipette Tip
92000 66
92001 66
92002 66
92003 66
92004 66
92010 66
92011 66
92012 66
92013 66
92014 66
92020 66
92021 66
92022 66
92023 66
92024 66
92200 66
92201 66
92202 66
92203 66
92204 66

Cell Strainer
93040 44
93070 44
93100 44

Aspiration Pipette
94001 65
94002 65
94005 65
94010 65

SPL SEAL™
96000 54

Confocal Dish & Plate
100350 30
100351 30
101350 30
102350 30
103350 30
200350 30
210350 30
211350 30
212350 30
213350 30
230106 30
230206 30

SPLPermea™ Bag
200110 38
200125 38
200150 38

SPLPermea™ Dish
200235 37

SPLPermea™ Rack
200425 38

SPLScar™ Block
201902 40
201903 40
201904 40
201914 40
201934 40
201916 40
201935 40
201936 40
201937 40

SPLScar™ Scratcher
201906 39
201924 39
201907 39
201925 39

SPLInsert™ Co-culture Dish
209260 34
209200 34

Insect Breeding Dish & Jar
310050 91
310102 91
310122 91
310201 91
310202 91

AraHarvest
310060 90
310061 90
310062 90
310063 90
310064 90
310065 90

Incu Tissue
310070 88
310071 88
310072 88
310074 88

Insect Breeding Box
310074 91
310075 91
310076 91
310077 91

Phytohealth
310120 90
310121 90

Autoclaving Jar
310123 83

Plant Culture Bottle Ⅰ,Ⅱ
310500 89
310501 89

Medical Container
400025 95
400125 95
401125 95
400500 95
400501 93
410025 95

Cyto Pap Brush
400200 98

Cyto Medical Brush
400210 98

Specimen Cup&Bottle
400120 94
401120 94
400121 94
400050 94
400060 94
401060 94
410200 94
410120 94

Medical Tube
400510 97
400511 97
400520 97
400521 97
400530 97
400531 97
401015 97

Embedding Cassette
400600 96
40060B 96
40060G....96
40060P 96
40060Y 96
400610 96
40061B 96
40061G....96
40061P 96
40061Y 96
401610 96
40161B 96
40161G....96
40161P 96
40161Y 96
402610 96
40261B 96
40261G....96
40261P 96
40261Y 96

Sample Cup 3 ml
400730 99

Super Mega Cassette
400800 95

Transport Bottle & Tube
401000 99
411000 99
BA50212....99

Water Sample Bottle
410011 85
410012 85
410014 85

Dropper
410501 67
410502 67

Serum Separating Tube
410514 97

Narrow-Mouth Bottle (HDPE)
516001 80
516002 80
516003 80
516004 80
516005 80
516006 80
516007 80
516008 80
516009 80

Narrow-Mouth Bottle (Amber)
516010 80
516011 80
516012 80
516013 80
516014 80
516015 80
516016 80
516017 80
516018 80

Narrow-Mouth Bottle (PP)
516019 81
516020 81
516021 81
516022 81
516023 81
516024 81
516025 81
516026 81
516027 81
516028 81

SPL3D™ Spheroid Forming Unit
911604 32

SPLInsert™ Multi Insert Dish
911605 34
911606 34
911607 34

Multi C-Strainer
94040 44
94070 44
94100 44

Vacuum Needle Holder
BA400900 98