

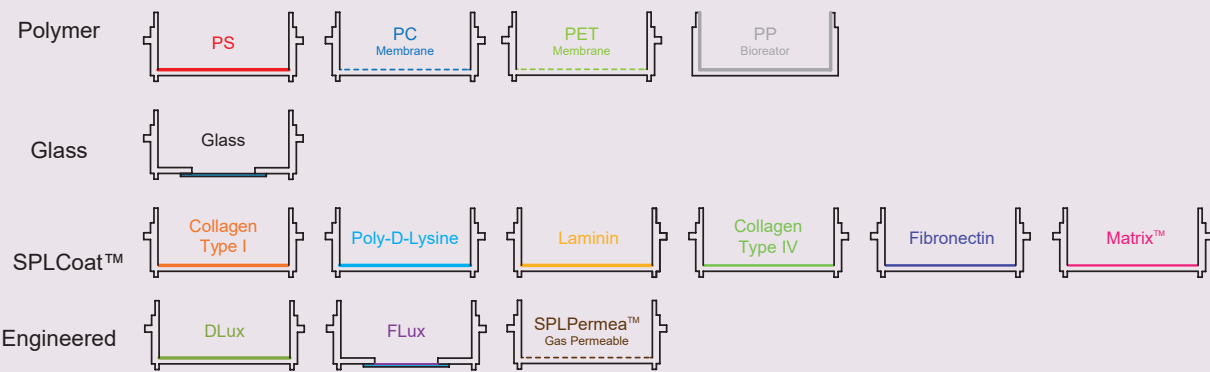
1. Cell Culture

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

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

All SPL cell culture products meet international guidelines / regulations, such as ISO (International Organization for Standardization), ANSI (American National Standard Institute) and USP (United States Pharmacopeia, class VI). Polymer resins used to manufacture all products have followed international guidelines such as CONEG, SARA, Reach EC / 1907 / 2006, RoHS 2015/863/EU. Biological tests (endotoxin, cytotoxicity, DNase / RNase / DNA) as well as cell attachment tests are regularly performed for quality control.

Surfaces & Materials of SPL Life Sciences Cell Culture Products



Surfaces

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

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

Materials

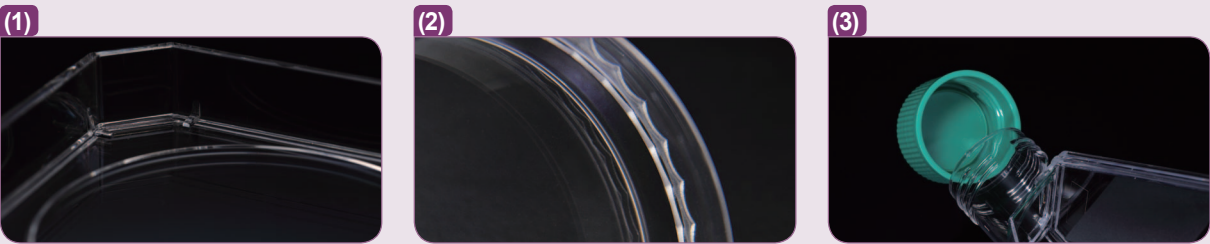
Polystyrene (PS)	Made of optically clear and transparent polystyrene suitable for observation. Polystyrene is especially useful material option in cell culturewares since it promotes cell binding, and is applicable to all surface treatments.
Glass	Naturally charged and relatively hydrophobic compared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

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

1-1. Cell Cultureware

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

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

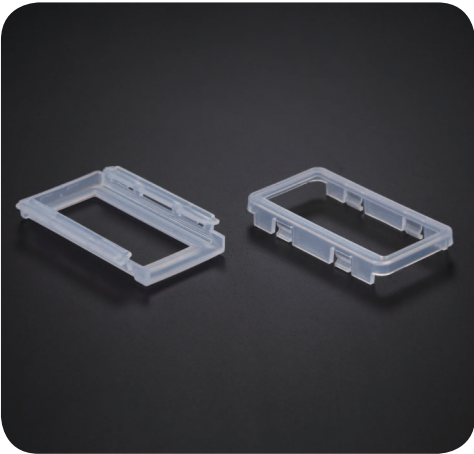


	Surfaces			Materials					
	Cell Culture-Treated	Non-Treated	SPLCoat™	PS	PP	PC	PET	HDPE	PTFE
Cell Culture Flask	•	•	•	•				•	
Cell Culture Dish	•	•	•	•					
Cell Culture Plate	•	•	•	•					
Square Dish	•			•					
Tray Plate	•			•					
Roller Bottle	•	•		•				•	
Erlenmeyer Flask		•			•	•			
Square Bottle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

Cell Culture Slide II

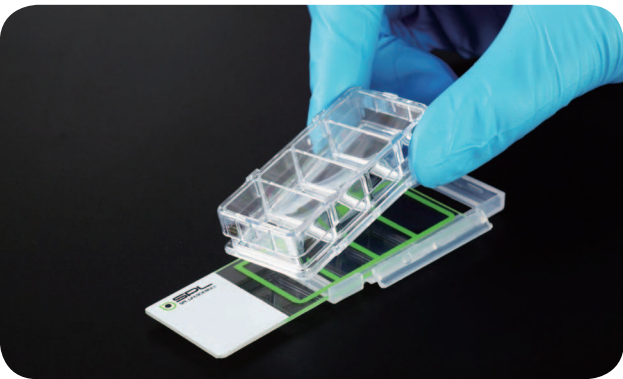


Cell Culture Slide II

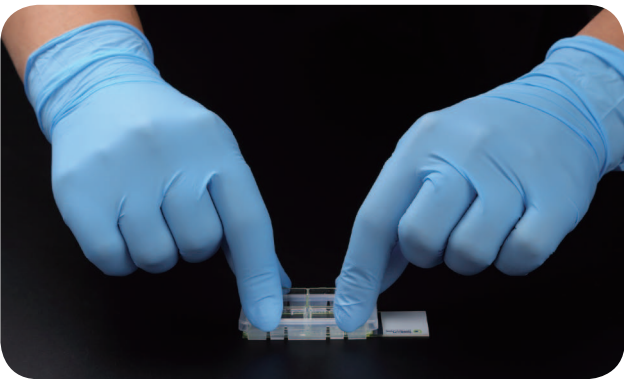


Cell Culture Slide I & II Holder

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



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

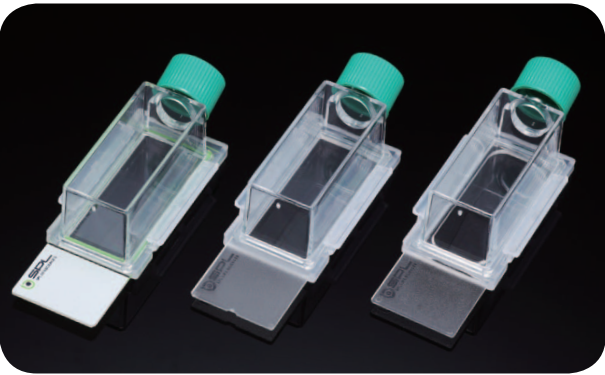


Cell Culture Slide II: Press chamber from top to bottom, then lean back and remove holder and chamber.

Cell Culture Slide Hybridwell™

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

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



Cell Culture Slide Hybridwell™

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