

SPLInsert™ Hanging

(#35006/35106/35206/35012/35112/35212/35024/35124/35224/36006/36106/36206/36012/36112/36212/36024/36124/36224/37006/37106/37206/37012/37112/37212/37024/37124/37224)

*Insert Only (#35624/35724/35824/36624/36724/36824/37624/37724/37824)

1. Description

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 tool 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.

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

Polyethylene terephthalate (PET): 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

2. Features

- ❖ Distance from membrane to the bottom of the well: 6well Insert 1.2mm, 12well Insert 1.2 mm, 24well Insert 1.3mm
- ❖ Nominal membrane thickness: 10 ~ 23 μm
- ❖ Frame material: 35xxx/36xx(PS), 37xxx(PET)
- ❖ Packed in cell culture-treated cell culture plates (except Insert Only)
- ❖ Insert Only: available individually

3. Functional Test

Cytotoxicity	:	Passed
Non-Pyrogenic	:	Passed
RNase/DNase Free	:	Passed
DNA free	:	Passed

4. Product Range

Cat.No.	Type	Membrane	Membrane Pore Size (μm)	Membrane Diameter (mm)	Growth Area (cm ²)	Working Volume (ml)	Optical Properties	Sterile	Packaging
35006	6 Inserts / 6 Well Plate	PC	0.4	24	4.52	1.5 - 2.5	Opaque	+	6/24
35106	6 Inserts / 6 Well Plate	PC	3.0	24	4.52	1.5 - 2.5	Translucent	+	6/24
35206	6 Inserts / 6 Well Plate	PC	8.0	24	4.52	1.5 - 2.5	Translucent	+	6/24
35012	12 Inserts / 12 Well Plate	PC	0.4	10.5	0.90	0.4 - 1.0	Opaque	+	12/48
35112	12 Inserts / 12 Well Plate	PC	3.0	10.5	0.90	0.4 - 1.0	Translucent	+	12/48
35212	12 Inserts / 12 Well Plate	PC	8.0	10.5	0.90	0.4 - 1.0	Translucent	+	12/48
35024	12 Inserts / 24 Well Plate	PC	0.4	6.5	0.33	0.2 - 0.35	Opaque	+	12/48
35124	12 Inserts / 24 Well Plate	PC	3.0	6.5	0.33	0.2 - 0.35	Translucent	+	12/48
35224	12 Inserts / 24 Well Plate	PC	8.0	6.5	0.33	0.2 - 0.35	Translucent	+	12/48
36006	6 Inserts / 6 Well Plate	PET	0.4	24	4.52	1.5 - 2.5	Opaque	+	6/24
36106	6 Inserts / 6 Well Plate	PET	3.0	24	4.52	1.5 - 2.5	Translucent	+	6/24
36206	6 Inserts / 6 Well Plate	PET	8.0	24	4.52	1.5 - 2.5	Translucent	+	6/24
36012	12 Inserts / 12 Well Plate	PET	0.4	10.5	0.90	0.4 - 1.0	Opaque	+	12/48
36112	12 Inserts / 12 Well Plate	PET	3.0	10.5	0.90	0.4 - 1.0	Translucent	+	12/48

36212	12 Inserts / 12 Well Plate	PET	8.0	10.5	0.90	0.4 - 1.0	Translucent	+	12/48
36024	12 Inserts / 24 Well Plate	PET	0.4	6.5	0.33	0.2 - 0.35	Opaque	+	12/48
36124	12 Inserts / 24 Well Plate	PET	3.0	6.5	0.33	0.2 - 0.35	Translucent	+	12/48
36224	12 Inserts / 24 Well Plate	PET	8.0	6.5	0.33	0.2 - 0.35	Translucent	+	12/48
37006	6 Inserts / 6 Well Plate	PET	0.4	24	4.52	1.5 - 2.5	Transparent	+	6/24
37106	6 Inserts / 6 Well Plate	PET	3.0	24	4.52	1.5 - 2.5	Transparent	+	6/24
37206	6 Inserts / 6 Well Plate	PET	8.0	24	4.52	1.5 - 2.5	Transparent	+	6/24
37012	12 Inserts / 12 Well Plate	PET	0.4	10.5	0.90	0.4 - 1.0	Transparent	+	12/48
37112	12 Inserts / 12 Well Plate	PET	3.0	10.5	0.90	0.4 - 1.0	Transparent	+	12/48
37212	12 Inserts / 12 Well Plate	PET	8.0	10.5	0.90	0.4 - 1.0	Transparent	+	12/48
37024	12 Inserts / 24 Well Plate	PET	0.4	6.5	0.33	0.2 - 0.35	Transparent	+	12/48
37124	12 Inserts / 24 Well Plate	PET	3.0	6.5	0.33	0.2 - 0.35	Transparent	+	12/48
37224	12 Inserts / 24 Well Plate	PET	8.0	6.5	0.33	0.2 - 0.35	Transparent	+	12/48

* Insert Only

Cat.No.	Type	Membrane	Membrane Pore Size (µm)	Membrane Diameter (mm)	Growth Area (cm²)	Working Volume (ml)	Optical Properties	Sterile	Packaging
35606	For 6Well Plate	PC	0.4	24.00	4.52	0.2 - 0.35	Opaque	+	6 / 48
35706	For 6Well Plate	PC	3.0	24.00	4.52	0.2 - 0.35	Translucent	+	6 / 48
35806	For 6Well Plate	PC	8.0	24.00	4.52	0.2 - 0.35	Translucent	+	6 / 48
36606	For 6Well Plate	PET	0.4	24.00	4.52	0.2 - 0.35	Opaque	+	6 / 48
36706	For 6Well Plate	PET	3.0	24.00	4.52	0.2 - 0.35	Translucent	+	6 / 48
36806	For 6Well Plate	PET	8.0	24.00	4.52	0.2 - 0.35	Translucent	+	6 / 48
66806	For 6Well Plate	PET	0.4	24.00	4.52	0.2 - 0.35	Transparent	+	6 / 48
67606	For 6Well Plate	PET	3.0	24.00	4.52	0.2 - 0.35	Transparent	+	6 / 48
67706	For 6Well Plate	PET	8.0	24.00	4.52	0.2 - 0.35	Transparent	+	6 / 48
35612	For 12Well Plate	PC	0.4	10.50	0.90	0.2 - 0.35	Opaque	+	6 / 48
35712	For 12Well Plate	PC	3.0	10.50	0.90	0.2 - 0.35	Translucent	+	6 / 48
35812	For 12Well Plate	PC	8.0	10.50	0.90	0.2 - 0.35	Translucent	+	6 / 48
36612	For 12Well Plate	PET	0.4	10.50	0.90	0.2 - 0.35	Opaque	+	6 / 48
36712	For 12Well Plate	PET	3.0	10.50	0.90	0.2 - 0.35	Translucent	+	6 / 48
36812	For 12Well Plate	PET	8.0	10.50	0.90	0.2 - 0.35	Translucent	+	6 / 48
37612	For 12Well Plate	PET	0.4	10.50	0.90	0.2 - 0.35	Transparent	+	6 / 48
37712	For 12Well Plate	PET	3.0	10.50	0.90	0.2 - 0.35	Transparent	+	6 / 48
37812	For 12Well Plate	PET	8.0	10.50	0.90	0.2 - 0.35	Transparent	+	6 / 48
35624	For 24Well Plate	PC	0.4	6.5	0.33	0.2 - 0.35	Opaque	+	6 / 48
35724	For 24Well Plate	PC	3.0	6.5	0.33	0.2 - 0.35	Translucent	+	6 / 48
35824	For 24Well Plate	PC	8.0	6.5	0.33	0.2 - 0.35	Translucent	+	6 / 48

36624	For 24Well Plate	PET	0.4	6.5	0.33	0.2 - 0.35	Opaque	+	6 / 48
36724	For 24Well Plate	PET	3.0	6.5	0.33	0.2 - 0.35	Translucent	+	6 / 48
36824	For 24Well Plate	PET	8.0	6.5	0.33	0.2 - 0.35	Translucent	+	6 / 48
37624	For 24Well Plate	PET	0.4	6.5	0.33	0.2 - 0.35	Transparent	+	6 / 48
37724	For 24Well Plate	PET	3.0	6.5	0.33	0.2 - 0.35	Transparent	+	6 / 48
37824	For 24Well Plate	PET	8.0	6.5	0.33	0.2 - 0.35	Transparent	+	6 / 48

* Membrane Information

Membrane	Membrane Pore Size (μm)	Optical Properties	Pore Density (/cm ²)	Cat. No.
PC	0.4	Opaque	1.0 x 10 ⁸	35006, 35012, 35024, 35606, 35612, 35624
PC	3.0	Translucent	2.0 x 10 ⁶	35106, 35112, 35124, 35706, 35712, 35724
PC	8.0	Translucent	1.0 x 10 ⁵	35206, 35212, 35224, 35806, 35812, 35824
PET	0.4	Translucent	1.0 x 10 ⁸	36006, 36012, 36024, 36606, 36612, 36624
PET	3.0	Opaque	2.0 x 10 ⁶	36106, 36112, 36124, 36706, 36712, 36724
PET	8.0	Translucent	1.0 x 10 ⁶	36206, 36212, 36224, 36806, 36812, 36824
PET	0.4	Transparent	1.0 x 10 ⁸	37006, 37012, 37024, 37606, 37612, 37624
PET	3.0	Transparent	8.0 x 10 ⁵	37106, 37112, 37124, 37706, 37712, 37724
PET	8.0	Transparent	6.0 x 10 ⁴	37206, 37212, 37224, 37806, 37812, 37824

5. Certification

SPL Life Sciences hereby certifies that the product identified above, inspected to be in compliance with product quality specification and requirements as documented in our ISO 9001:2015 Quality Management System (K-QA-Q031478) in Korea.

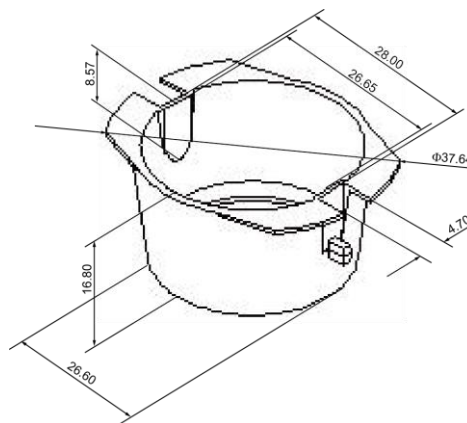
6. Specifications & Technical Drawing

(1) Cell Culture Insert 6well type (# 35006/35106/35206/36006/36106/36206/37006/37106/37206)

- Specifications

Membrane	Dimensions		Material (Resin)	Packaging
	Upper	Lower		
Diameter: 25.00 mm Thickness: 7 ~ 10 μ m Pore Size: 0.4, 3.0, 8.0 μ m	Diameter Outer: 28.00 mm Diameter Inner: 26.65 mm	Diameter Outer: 26.60 mm Diameter Inner: 23.30 mm	▪ Membrane: Polycarbonate (PC) or Polyethylene terephthalate (PET) ▪ Frame: Polystyrene (PS) or Polyethylene terephthalate (PET)	▪ Pieces/Sleeve: 6 ▪ Pieces/Case: 24
Height: 16.80 mm Growth Area: 4.52 cm ² Working Volume per Insert: 1.50 ~ 2.50 ml				

- Technical Drawing

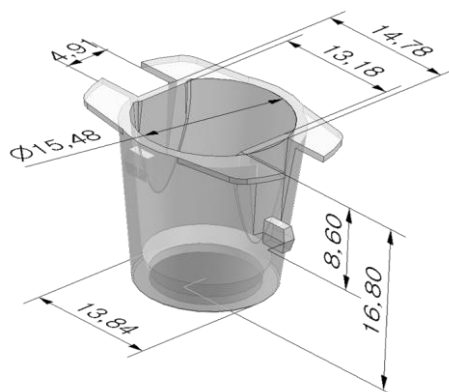


(2) Cell Culture Insert 12well type (# 35012/35112/35212/36012/36112/36212/37012/37112/37212)

- Specifications

Membrane	Dimensions		Material (Resin)	Packaging
	Upper	Lower		
Diameter: 10.50 mm Thickness: 7 ~ 10 μ m Pore Size: 0.4, 3.0, 8.0 μ m	Diameter Outer: 14.78 mm Diameter Inner: 13.18 mm	Diameter Outer: 13.84 mm Diameter Inner: 10.50 mm	▪ Membrane: Polycarbonate (PC) or Polyethylene terephthalate (PET) ▪ Frame: Polystyrene (PS) or Polyethylene terephthalate (PET)	▪ Pieces/Sleeve: 12 ▪ Pieces/Case: 48
Height: 16.80 mm Growth Area: 0.92 cm ² Working Volume per Insert: 0.40 ~ 1.00 ml				

- Technical Drawing



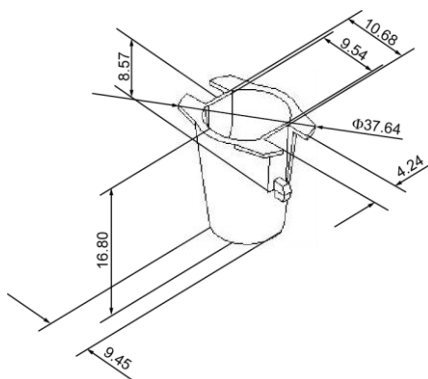
(3) Cell Culture Insert 24well type

(#35024/35124/35224/35624/35724/35824/36024/36124/36224/36624/36724/36824/37024/37124/37224/37624/37724/37824)

- Specifications

Membrane		Dimensions		Material (Resin)	Packaging
		Frame			
		Upper	Lower		
Diameter: 6.50 mm Thickness: 7 ~ 10 μm Pore Size: 0.4, 3.0, 8.0 μm	Diameter Outer: 10.68 mm Diameter Inner: 9.54 mm	Diameter Outer: 9.46 mm Diameter Inner: 6.48 mm	▪ Membrane: Polycarbonate (PC) or Polyethylene terephthalate (PET) ▪ Frame: Polystyrene (PS) or Polyethylene terephthalate (PET)	▪ Pieces/Tray: 6 ▪ Pieces/Case: 48	
Height: 16.80 mm Growth Area: 0.33 cm ² Working Volume per Insert: 0.20 ~ 0.35 ml					

- Technical Drawing



www.spllifesciences.com

For technical assistance, contact SPL R&D Center at:

Tel: +82-31-533-4800; Fax: +82-31-533-1430; e-mail: spl@ispl.co.kr

To place an order, contact your local distributor or

Tel: +82-31-533-4800; Fax: +82-31-533-1430; e-mail: business@ispl.co.kr