



**Thermo Scientific
Nunc Cell Culture Inserts and
Carrier Plates**

designed for
superior cell growth

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Nunc Cell Culture Inserts and Carrier Plates

Optimizing your research

Thermo Fisher Scientific offers a wide range of cell culture inserts – featuring our Nunclon™ Delta surface treatment of the membrane – as well as uniquely adjustable, flexible carrier plates.

Polycarbonate Cell Culture Inserts

Nunc™ Polycarbonate Cell Culture Inserts in Nunclon Delta treated multi-dishes are easy to use for cultivation of most cell types, without matrix coating, and optimized for 3-D cell imaging.



An assortment of dish and insert sizes, along with multiple insert membrane pore sizes, support a wide range of applications.

Cell culture inserts arrive with membrane inserts packed inside sterile Nunclon Delta treated multi-dishes, tested to ensure optimal cell growth.

Application Examples

Transport Studies

Molecules including hormones and growth factors
Drug transport across epithelial (Caco-2) and endothelial barriers
Drug transport across brain microvascular endothelial cells

Pore size, μm - 0.4 or 3.0

Co-cultivation studies

Cell-cell interaction
Cell-matrix interaction
Cell-substrate interaction

Pore size, μm - 0.4 or 3.0

Tissue engineering

Angiogenesis
Dermal/epidermal and epithelial tissue models

Pore size, μm - 0.4 or 3.0

Chemotaxis studies

Migration of cells including eosinophils and macrophages

Pore size, μm - 3.0 or 8.0

Invasion studies

Tumor invasion and metastasis models
Invasion inhibitors

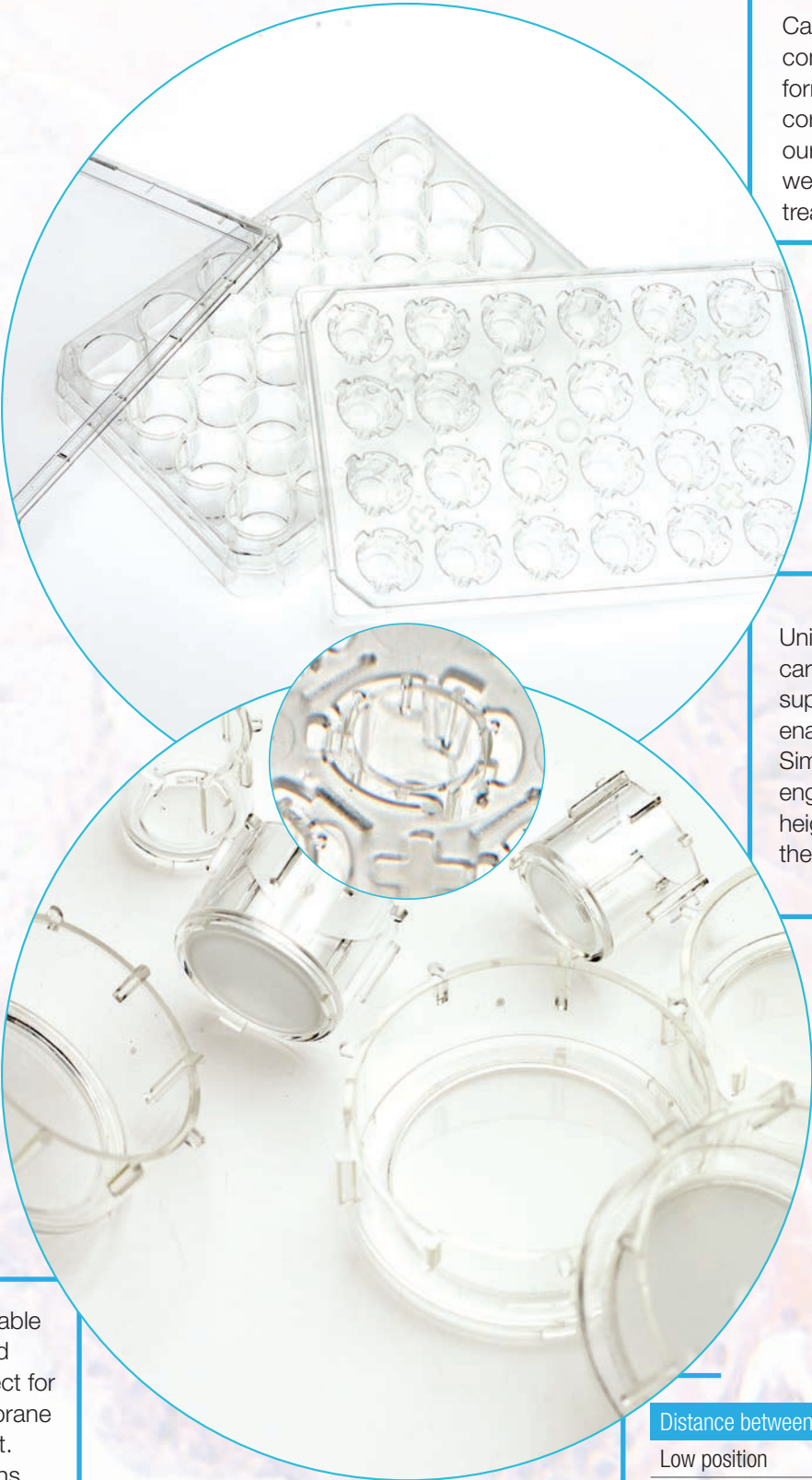
Extra cellular matrix effects

Pore size, μm - 3.0 or 8.0

Our cell culture inserts and carrier plates meet ANSI standards and are equipped with alphanumeric well identification; all items are USP Class VI, sterile and include lids.

Carrier Plates for Cell Culture Inserts

Nunc Carrier Plates are designed for versatility in your research. The system for manipulating multiple inserts can be used for individual compartment cultures or cultures with shared media. Use with up to 12 or 24 inserts at a time.



Carrier plates come in two formats that correspond with our 12- and 24-well Nunclon Delta treated dishes.

Uniquely engineered carrier plate features a support structure that enables variable height. Simply rotate the insert to engage one of the three height-adjusting tabs into the carrier plate supports.

Polycarbonate membrane available in three pore sizes for enhanced flexibility in your research. Perfect for 3-D imaging; translucent membrane becomes transparent when wet. See back cover for specifications.

Distance between membrane and well	
Low position	0.9 mm
Medium position	3.3 mm
High position	6.3 mm

Ordering Information

Cell Culture Inserts in 24-well Multi-dish – Polycarbonate Membrane

Cat No.	Pore Size, μm	Pore Density, pores/cm ²	Culture Area, cm ²	Suggested Working Volume, mL*	No. inserts/multi-dishes	No. of multi-dishes/case
140620	0.4	<0.85 x 10 ⁸	0.47	1.1	12	4
140627	3.0	<1.7 x 10 ⁶	0.47	1.1	12	4
140629	8.0	<0.85 x 10 ⁵	0.47	1.1	12	4

Cell Culture Inserts in 12-well Multi-dish – Polycarbonate Membrane

Cat No.	Pore Size, μm	Pore Density, pores/cm ²	Culture Area, cm ²	Suggested Working Volume, mL*	No. inserts/multi-dishes	No. of multi-dishes/case
140652	0.4	<0.85 x 10 ⁸	1.13	2.3	12	4
140654	3.0	<1.7 x 10 ⁶	1.13	2.3	12	4
140656	8.0	<0.85 x 10 ⁵	1.13	2.3	12	4

Cell Culture Inserts in 6-well Multi-dish – Polycarbonate Membrane

Cat No.	Pore Size, μm	Pore Density, pores/cm ²	Culture Area, cm ²	Suggested Working Volume, mL*	No. inserts/multi-dishes	No. of multi-dishes/case
140640	0.4	<0.85 x 10 ⁸	3.14	4.0	6	4
140642	3.0	<1.7 x 10 ⁶	3.14	4.0	6	4
140644	8.0	<0.85 x 10 ⁵	3.14	4.0	6	4
140660	0.4	<0.85 x 10 ⁸	4.1	4.0	6	4
140663	3.0	<1.7 x 10 ⁶	4.1	4.0	6	4
140668	8.0	<0.85 x 10 ⁵	4.1	4.0	6	4

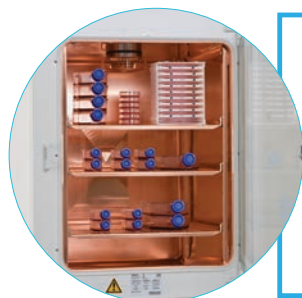
Nunc Carrier Plate System for 24-well Multi-dish – Polycarbonate Membrane

Cat No.	Pore Size, μm	Pore Density, pores/cm ²	Culture Area, cm ²	Suggested Working Volume, mL*	No. of inserts/carrier plate	No. of carrier plates/case
141008	-	-	-	-	0	4
141002	0.4	<0.85 x 10 ⁸	0.47	1.1	24	4
141004	3.0	<1.7 x 10 ⁶	0.47	1.1	24	4
141006	8.0	<0.85 x 10 ⁵	0.47	1.1	24	4

Nunc Carrier Plate System for 12-well Multi-dish – Polycarbonate Membrane

Cat No.	Pore Size, μm	Pore Density, pores/cm ²	Culture Area, cm ²	Suggested Working Volume, mL*	No. of inserts/carrier plate	No. of carrier plates/case
141086	-	-	-	-	0	4
141078	0.4	<0.85 x 10 ⁸	1.13	2.3	12	4
141080	3.0	<1.7 x 10 ⁶	1.13	2.3	12	4
141082	8.0	<0.85 x 10 ⁵	1.13	2.3	12	4

*All Nunc Cell Culture Inserts: Suggested working volume, mL is in addition to normal working volume in Multi-dish wells



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