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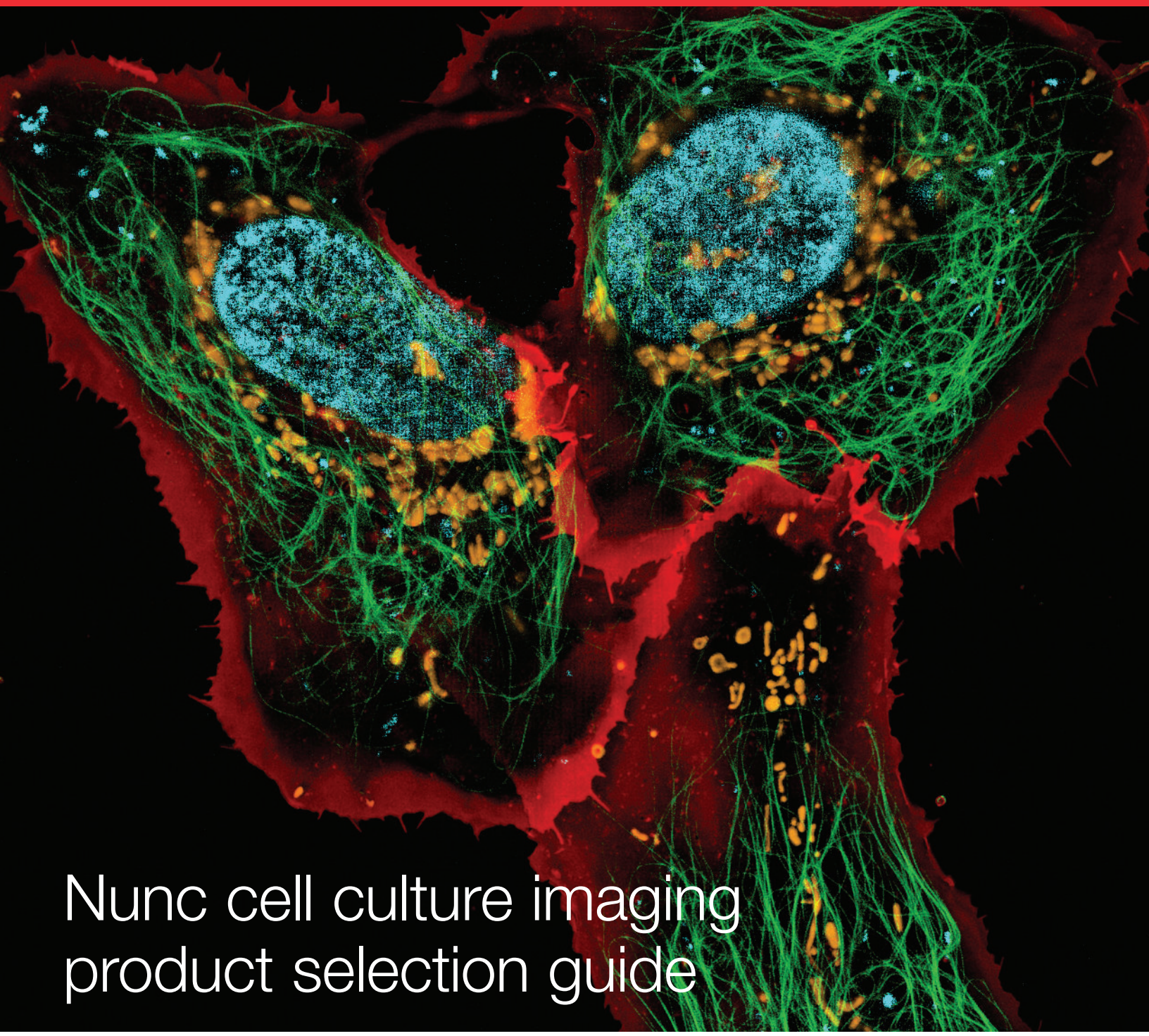

Nunc cell culture imaging product selection guide

The clear choice for high-quality imaging applications

ThermoFisher SCIENTIFIC

Flexibility and consistency for cellular imaging and analysis

We offer a wide selection of cell culture consumables with high-quality glass or optical polymer bases for your imaging applications:

- Fluorescence microscopy
- Phase contrast microscopy
- Confocal microscopy
- Super-resolution microscopy
- Differential interference contrast (DIC) microscopy
- Live-cell imaging
- High-content imaging
- Cell-based fluorescence or luminescence assays

Chamber slides

Thermo Scientific™ Nunc™ Lab-Tek™ and Lab-Tek™ II Chamber Slide™ Systems feature removable chambers that allow you to seed, incubate, fix, and stain on a single microscope slide.

- **Nunc Lab-Tek Glass Chamber Slide System**—high-quality soda lime glass with six-stage, high-purity wash to facilitate cell attachment
- **Nunc Lab-Tek Chamber Slide System, Permanox™ Plastic**—Thermo Scientific™ Nunclon™ Delta–treated polymer plastic slide allows reliable attachment of adherent cells
- **Nunc Lab-Tek II Chamber Slide System, RS Glass**—highly optical soda lime glass with proprietary RS wash treatment, aids in the attachment of cells to slide
- **Nunc Lab-Tek II Chamber Slide System, CC2™ Glass**—chemically modified glass provides a growth surface with a positive charge that mimics poly-D-lysine and aids in the attachment of fastidious cells

Chambered coverglass

Thermo Scientific™ Nunc™ Lab-Tek™ and Lab-Tek™ II Chambered Coverglass features chambers mounted to coverglass for high-magnification microscopy and confocal and live imaging.

- **Nunc Lab-Tek Coverglass**—1.0 borosilicate glass
- **Nunc Lab-Tek II Coverglass**—1.5 borosilicate glass

Flasks on slides

Thermo Scientific™ Nunc™ Lab-Tek™ Flasks on Slides are an ideal solution for cell karyotyping using single-cell autoradiography or single-cell immunofluorescence.

- **Nunc Lab-Tek Flask on Slide, Flaskette™ product**—attached to a glass slide with removable silicone barrier
- **Nunc Lab-Tek Flask on Slide, SlideFlask product**—ultrasonically welded flask on a removable polystyrene slide

Optical-bottom microplates

Thermo Scientific™ Nunc™ 96- and 384-well optical-bottom plates, with either a thin polymer film bottom or a 1.5 borosilicate glass coverslip bottom, are ideal for plate-based assays and imaging applications. Black microplates are recommended for fluorescence measurements, with minimum back-scattered light and background fluorescence. White plates are best for luminescence measurements, with maximum signal-to-noise (s/n) ratio.

Nunc optical-bottom plates are available with several surface treatment options:

- Nunclon Delta cell culture surface coating promotes cell attachment and is widely used for adherent cell culture
- Poly-D-lysine and collagen surface coatings are designed for primary cells and fastidious cells that are characterized by low adherence or slow growth
- The nontreated hydrophobic polystyrene surface coating is used for suspension cell cultures (e.g., T cells, B cells)

Glass-bottom dishes

Thermo Scientific™ Nunc™ glass-bottom dishes* give you the flexibility to convert your culture device into an imaging device. This means you keep the same seeding density, medium volume, and culture conditions.

The Nunc glass-bottom dish combines the convenience of a standard 35 mm cell culture dish with the imaging benefits of a coverslip to provide the optimum optical characteristics required for high-magnification microscopy and confocal image analysis.

Nunc glass-bottom dishes are ideal for observation at high magnification:

- Fluorescence microscopy
- Phase contrast microscopy
- Confocal microscopy
- Live-cell imaging

* Nunc glass-bottom dishes are not available in Japan.

Ordering information

Product	No. of wells	Suggested working vol. (mL/well)	Culture area (cm^2/well)	Bottom thickness (mm)	Units per pack/case	Cat. No.
Nunc Lab-Tek Chamber Slide System, glass	1	2.5–4.5	9.4	1.0–1.2	16/96	177372
	2	1.2–2.0	4.2	1.0–1.2	16/96	177380
	4	0.5–0.9	1.8	1.0–1.2	16/96	177399
	8	0.2–0.4	0.8	1.0–1.2	16/96	177402
	16	0.1–0.2	0.4	1.0–1.2	16/96	178599
Nunc Lab-Tek Chamber Slide System, Permanox plastic	1	2.5–4.5	9.4	1.0–1.2	16/96	177410
	2	1.2–2.0	4.2	1.0–1.2	16/96	177429
	4	0.5–0.9	1.8	1.0–1.2	16/96	177437
	8	0.2–0.4	0.8	1.0–1.2	16/96	177445
Nunc Lab-Tek II Chamber Slide System, RS glass	1	2.0–4.5	8.6	1.0–1.2	16/96	154453
	2	1.0–2.0	4.0	1.0–1.2	16/96	154461
	4	0.5–1.0	1.7	1.0–1.2	16/96	154526
	8	0.2–0.5	0.7	1.0–1.2	16/96	154534
Nunc Lab-Tek II CC2 Chamber Slide System, glass	1	2.0–4.5	8.6	1.0–1.2	16/96	154739
	2	1.0–2.0	4.0	1.0–1.2	16/96	154852
	4	0.5–1.0	1.7	1.0–1.2	16/96	154917
	8	0.2–0.5	0.7	1.0–1.2	16/96	154941
Nunc Lab-Tek Chambered Coverglass, 1.0 borosilicate glass	1	2.5–4.5	9.4	0.13–0.17	16/96	155361
	2	1.2–2.0	4.2	0.13–0.17	16/96	155380
	4	0.5–0.9	1.8	0.13–0.17	16/96	155383
	8	0.2–0.4	0.8	0.13–0.17	16/96	155411
Nunc Lab-Tek II Chambered Coverglass, 1.5 borosilicate glass	1	2.5–4.5	8.6	0.16–0.19	16/96	155360
	2	1.2–2.0	4.0	0.16–0.19	16/96	155379
	4	0.5–1.0	1.7	0.16–0.19	16/96	155382
	8	0.2–0.5	0.7	0.16–0.19	16/96	155409

Product	Description	Slide material	Suggested working vol. (mL/well)	Culture area (cm^2/well)	Bottom thickness (mm)	Units per pack/case	Cat. No.
Nunc Lab-Tek Flask on Slide	Flaskette chamber	Glass	2.5–5.0	10	1.0–1.2	16/96	177453
	SlideFlask*	Polystyrene	2.5–5.0	9	1.0–1.2	5/50	170920

* Nunclon Delta–certified.

Product	Description	Dimensions (mm)	Units per pack/case	Cat. No.
Accessory	Glass Coverslip for Cat. No. 178599	22 x 47	-/96	171080
	Glass Coverslip for Cat. No. 170920	18 x 50	100/1,000	171862

Product	Surface	Well design	Color	Bottom plate	Total vol. (µL/well)	Sterile	Lid	Bottom (mm)	Units per pack/case	Cat. No.
Nunc Microwell 96-Well Optical-Bottom Plates with Polymer Base	Poly-D-lysine	96 F	White	Polymer	400	Yes*	Yes	0.25	5/20	152028
	Collagen I	96 F	Black	Polymer	400	Yes*	Yes	0.25	5/20	152036
	Poly-D-lysine	96 F	Black	Polymer	400	Yes*	Yes	0.25	5/20	152037
	Collagen I	96 F	White	Polymer	400	Yes*	Yes	0.25	5/20	152040
	Cell culture	96 F	Black	Polymer	400	Yes	Yes	0.25	10/30	165305
	Cell culture	96 F	White	Polymer	400	Yes	Yes	0.25	10/30	165306
	Nontreated	96 F	Black	Polymer	400	No	No	0.25	10/30	265301
	Nontreated	96 F	White	Polymer	400	No	No	0.25	10/30	265302
Nunc Microwell 384-Well Optical-Bottom Plates with Polymer Base	Cell culture	384 F	Black	Polymer	120	Yes	Yes	0.25	10/30	142761
	Cell culture	384 F	White	Polymer	120	Yes	Yes	0.25	10/30	142762
	Poly-D-lysine	384 F	Black	Polymer	120	Yes*	Yes	0.25	5/20	152029
	Collagen I	384 F	Black	Polymer	120	Yes*	Yes	0.25	5/20	152041
	Nontreated	384 F	Black	Polymer	120	No	No	0.25	10/30	242764
Nunc Microwell 96-Well Optical-Bottom Plates with Coverglass Base	CC2	96 F	Black	1.5 Coverglass	400	Yes	Yes	0.16–0.19	6/30	160376
	Cell culture	96 F	Black	1.5 Coverglass	400	Yes	Yes	0.16–0.19	6/30	164588
	Cell culture	96 F	White	1.5 Coverglass	400	Yes	Yes	0.16–0.19	6/30	164590
	Nontreated	96 F	Black	1.5 Coverglass	400	No	No	0.16–0.19	5/30	265300
Nunc Microwell 384-Well Optical-Bottom Plates with Coverglass Base	Cell culture	384 F	Black	1.5 Coverglass	120	Yes	Yes	0.16–0.19	6/30	164586

* Produced in a clean environment.

Product	Description	Bottom thickness (mm)	Units per pack/case	Cat. No.
Nunc Glass-Bottom Dishes*	12 mm diameter	0.16–0.19	1/20	150680
	27 mm diameter	0.16–0.19	1/20	150682

* Nunc glass-bottom dishes are not available in Japan.

Product	Description	Size	Cat. No.
Gibco cell culture medium for live imaging	FluoroBrite DMEM	500 mL	A1896701
	FluoroBrite DMEM	10 x 500 mL	A1896702

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Find out more at **thermofisher.com/clearadvantage**

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