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1. Description

This product is for research use only.

Components Cover glass slides with removable chamber (1, 2, 4, or 8 wells), with lid, sterile and single-packed, 16 or 80 pieces per box.

	16 pieces	80 pieces
Imaging Chamber CG (1 well)	130-098-274	130-098-275
Imaging Chamber CG (2 well)	130-098-276	130-098-277
Imaging Chamber CG (4 well)	130-098-278	130-098-279
Imaging Chamber CG (8 well)	130-098-280	130-098-281
	1 piece	
Imaging Chamber CG Adapter	130-098-333	

Storage Store Imaging Chambers CG dry and protected from light at room temperature (19–25 °C). The expiration date is indicated on the box label. Do not use after this date.

1.1 Background information

The Imaging Chambers CG have been designed for cell based assays and high resolution life cell imaging applications. As the chambers can be gently unmounted from the cover glasses it is possible to combine life cell imaging with later additional investigation, e.g. scanning electron microscopy, or storing of the samples embedded on microscope slides. Therefore cell culture samples can be analyzed with inverted and upright microscopes. The chamber bottom is made from a 170 µm borosilicate cover glass specially selected for fluorescence detection technologies. The V lid and the chambers are made from chemical and temperature resistant materials. Thus, hybridization within the chambers as well as usage of chemicals like acetone for fixation of cells is possible.

1.2 Technical specifications

- Chamber body material: Cycloolefine copolymer, transparent.
- Bottom material and dimensions: Borosilicate cover glass, 26 mm×58 mm×170 µm.
- Lid material: Cycloolefine, copolymer, transparent.
- The cover glass slide is physically surface treated to promote cell adhesion and spreading. Sensitive cell types may require additional surface coatings.
- Recommended working temperature between –20 °C and +90 °C.
- Dimensions and working volumes:

	1 well	2 well	4 well	8 well
Growth area per well	10.84 cm ²	5.04 cm ²	2.14 cm ²	0.88 cm ²
Recommended working volume per well	2 mL	1 mL	0.5 mL	0.3 mL

- Optical properties: Refractive index 1.52; Abbe's number 55; >85% light transmission at 310 nm; >90% light transmission between 360–800 nm.

1.3 Further information

- Imaging Chambers CG are compliant with all inverted microscopes for life cell imaging. Disassembled cover glasses can be embedded on microscope slides and can afterwards also be used with upright microscopes.
- The Imaging Chambers CG are shorter than conventional microscope slides (58 mm instead of 76 mm). Use reusable extension adapters (Imaging Chamber CG Adapter, # 130-098-333), if the microscope stage is equipped with inserts for microscope slides.
- The cycloolefine chamber body and the adhesive to bond the film are resistant to many chemicals and elevated temperatures but avoid prolonged exposure of strong ketones to prevent degradation of the chamber body.

- Chemical resistance criteria: no deformation, no color change, no leakage, no interference with staining procedures.

Chemicals	Conditions	Resistant/ not resistant
Acetone 10%, methanol 90%	1 h, -20 °C	+
Acetone 100%	24 h, RT	+
Acetonitrile	24 h, RT	+
Benzene	1 h, RT	-
DMSO 1–10%	5 d, RT	+
Ethanol 75%	24 h, RT	+
Ethylene glycol	24 h, RT	+
Ethylene oxide	24 h, RT	+
Formaldehyde 3.7%	5 d, RT	+
Glutaraldehyde 1%	5 d, RT	+
Glycerine	5 d, RT	+
Immersion oils	5 d, RT	+
Isopropanol 75%	24 h, RT	+
Ketones	24 h, RT	(+)
Methanol 90%	24 h, RT	+
Toluene	1 h, RT	-
Triton™ X	24 h, 37 °C	+

RT: room temperature (19–25 °C)

d: day

h: hour

+: resistant

-: not resistant

1.4 Applications

Imaging Chambers CG have been designed for high resolution, super resolution, and life cell imaging applications.

Examples are

- sensitive fluorescence analysis (FRET, FRAP, FLIM, TIRF),
- high and super resolution microscopy,
- differential Interference contrast (DIC),
- fluorescence correlation spectroscopy, or
- multiplexed combination of light and electron microscopy.

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