Miltenyi Biotec

Imaging Chamber

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1. Description

This product is for research use only.

Components Microscope 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 (1 well)	130-098-266	130-098-267
Imaging Chamber (2 well)	130-098-268	130-098-269
Imaging Chamber (4 well)	130-098-270	130-098-271
Imaging Chamber (8 well)	130-098-272	130-098-273

Storage Store Imaging Chambers 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 have been designed for cell based assays or tissue incubation steps when finally further processing or storing of the samples on microscope slides is needed. After disassembly of the chamber the slides can be transferred to standard slide staining routines and the samples can be embedded and sealed with a cover glass. Therefore cell culture samples can be analyzed even with an upright microscope. The microscope slides made from soda lime glass are specially selected for fluorescence detection technologies.

1.2 Technical specifications

- Chamber body material: Cycloolefine copolymer, transparent.
- Bottom material and dimensions: Microscope slide, soda lime glass, 26 mm×76 mm×1 mm.
- Lid material: Cycloolefine, copolymer, transparent.
- The microscope slide is physically surface treated to promote cell adhesion and spreading. Sensitive cell types may require additional surface coatings.
- Recommended working temperature betweeen –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 are compliant with all inverted microscopes for life cell imaging. Disassembled slides can also be used with upright microscopes.
- Disassembly of the chambers from the slides can be easily done manually by shifting the chamber body from the glass.
- 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 resisitant
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	+
Tolouene	1 h, RT	–
Triton™ X	24 h, 37 °C	+

RT: room temperature (19–25 °C)
d: day
h: hour
+: resistant
–: not resistant

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1.4 Applications

Imaging Chambers have been designed for cell based analysis or tissue incubation with subsequent processing of the sample carrying microscope slides.

Examples are

- fluorescence *in situ* hybridization, FISH, and mFISH,
- sensitive fluorescence analysis,
- tissue slice incubation, staining, and microscopy, or
- cell incubation and staining requiring permanent storage of the samples.

Refer to **www.miltenyibiotec.com** for all data sheets and protocols. Miltenyi Biotec provides technical support worldwide. Visit www.miltenyibiotec.com/local to find your nearest Miltenyi Biotec contact.

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