Miltenyi Biotec

Imaging Dish CG

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1. Description

This product is for research use only.

Components Petri dishes with central cover glass bottom, with lid, sterile, two per bag packed, 30 or 168 pieces per box.

	30 pieces	168 pieces
Imaging Dish CG 1.0	130-098-282	130-098-283
Imaging Dish CG 1.5	130-098-284	130-098-285
Imaging Dish CG µGrid	130-098-286	130-098-287

Storage Store Imaging Dishes 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 Dishes CG are designed for cell-based assays with special requirements for microscopic analysis. The central dish bottom is made from cover glass with either 145 µm or 170 µm thickness (German cover glass 1.0 or 1.5, respectively) and enables superior optical properties for high resolution microscopy or fluorescence correlation analysis. Imaging Dishes CG µGrid provide in addition a precise microgrid in the focal plane of the cells for cell relocation.

1.2 Technical specifications

- Dish body material: polystyrene, transparent.
- Bottom material and dimensions: Borosilicate cover glass, 145 µm (1.0) or 170 µm (1.5) thick.
- Lid material: polystyrene, transparent.
  Dish body with low skirt design (distance between skirt bottom and focal plane 0.4 mm).
  The cover glass is physically surface-treated to promote cell adhesion and spreading. Sensitive cell types may require additional surface coatings.
- Outer dish diameter is 35 mm; central glass bottom diameter is 18 mm
- Recommended working temperature between 4 °C and +40 °C.
- Recommended working volume: 2 mL
- Optical properties: Refractive index 1.52; Abbe's number 55; >85% light transmission at 310 nm; >90% light transmission between 360–800nm.

1.3 Further information

- Imaging Dishes CG are compliant with all inverted microscopes. The dishes can be used on standard plane microscope stages directly.
- The stage adapters also support the positioning of the dishes In controlled orientation and allow position control between two different observation time points.
- For high magnification objectives (40x and higher) make sure to select the dish type (bottom thickness) which corresponds best to your objectives.
- The polystyrene dish body and the adhesive to bond the glass limit chemical resistance: avoid prolonged exposure to alcohols, ketones and acetone to prevent degradation of the dish body or the adhesive.
- Standard Immersion media can be used (water, oil, glycerol) for Immersion objectives.
- 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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- (Optional) Imaging Dish Stage CG Adapter (# 130-098-288) for stage inserts for microscope slides.
- (Optional) Imaging Dish Stage CG Adapter (# 130-098-289) for multiwell plate stage inserts. It can take two imaging dishes in parallel.

1.4 Applications

Imaging Dishes CG have been designed for cell-based analysis and direct inverse high resolution microscopy.

Examples are

- sensitive fluorescence analysis (FRET, FRAP, FLIM, TIRF),
- differential interference contrast (DIC)
- micromanipulation and injection
- fluorescence correlation spectroscopy
- high and super resolution microscopy

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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