

Contents

1. Description

- 1.1 Background information
- 1.2 Technical specifications
- 1.3 Further information
- 1.4 Applications

1. Description

This product is for research use only.

Components 24-well or 96-well plates, black, cover glass bottom, with lid, sterile and single packed, 20 pieces per box.

Product	Order no.
Imaging Plate CG 1.0 (24 well)	130-098-262
Imaging Plate CG 1.5 (24 well)	130-098-263
Imaging Plate CG 1.0 (96 well)	130-098-264
Imaging Plate CG 1.5 (96 well)	130-098-265

Storage Store Imaging Plates 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 Plates CG have been designed for cell based assays with special requirements for microscopic and photometric analysis. The plate 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.

1.2 Technical specifications

- Plate material: Polystyrene, black.
- Bottom material: Borosilicate cover glass, 145 µm (1.0) or 170 µm (1.5) thick.
- Lid material: Polystyrene, transparent with condensation rings.

- Plate 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.
- Recommended working temperature between 4 °C and 40 °C.
- Recommended working volume per well: 500–1000 µL (24 well) and 100–200 µL (96 well), respectively.
- Dimensions (ANSI/SLAS guideline compliant):

	24-well plate	96-well plate
Length [mm]	127.76	127.76
Width [mm]	85.48	85.48
Height [mm]	15	14.35
Well diameter [mm]	13.2	6
Well-well distance x/y [mm]	18/18	9/9
Distance well center A1 to short side [mm]	18.88	14.38
Distance well center A1 to long side [mm]	15.74	11.24
Distance bottom to focal plane [mm]	0.4	0.4
Bottom thickness [mm]	0.145/0.170	0.145/0.170

- 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 Plates CG are compliant with all plate readers and imaging systems which accept ANSI/SLAS plates. For HCA readers and automated microscopes use the given dimensional data for instrument settings/stage programming. The position of wells for 24-well plates are not fixed by ANSI/SLAS standards. For plate readers with standard settings optimal performance should be checked before the first use.
- The polystyrene plate body and the adhesive to bond the film limit chemical resistance: avoid prolonged exposure to alcohols, ketones, and acetone to prevent degradation of the plate body or the adhesive.
- Standard immersion media can be used (water, oil, glycerol).

- 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 Plates CG have been designed for cell based assays with fluorescence or luminescence read out technologies and high content analysis (HCA).

Examples are

- (multiplexed) HCA,
- fluorescence correlation spectroscopy, or
- 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.

Legal notices

Limited product warranty

Miltenyi Biotec B.V. & Co. KG and/or its affiliate(s) warrant this product to be free from material defects in workmanship and materials and to conform substantially with Miltenyi Biotec's published specifications for the product at the time of order, under normal use and conditions in accordance with its applicable documentation, for a period beginning on the date of delivery of the product by Miltenyi Biotec or its authorized distributor and ending on the expiration date of the product's applicable shelf life stated on the product label, packaging or documentation (as applicable) or, in the absence thereof, ONE (1) YEAR from date of delivery ("Product Warranty"). Miltenyi Biotec's Product Warranty is provided subject to the warranty terms as set forth in Miltenyi Biotec's General Terms and Conditions for the Sale of Products and Services available on Miltenyi Biotec's website at www.miltenyibiotec.com, as in effect at the time of order ("Product Warranty"). Additional terms may apply. BY USE OF THIS PRODUCT, THE CUSTOMER AGREES TO BE BOUND BY THESE TERMS.

THE CUSTOMER IS SOLELY RESPONSIBLE FOR DETERMINING IF A PRODUCT IS SUITABLE FOR CUSTOMER'S PARTICULAR PURPOSE AND APPLICATION METHODS.

Technical information

The technical information, data, protocols, and other statements provided by Miltenyi Biotec in this document are based on information, tests, or experience which Miltenyi Biotec believes to be reliable, but the accuracy or completeness of such information is not guaranteed. Such technical information and data are intended for persons with knowledge and technical skills sufficient to assess and apply their own informed judgment to the information. Miltenyi Biotec shall not be liable for any technical or editorial errors or omissions contained herein.

All information and specifications are subject to change without prior notice. Please contact Miltenyi Biotec Technical Support or visit www.miltenyibiotec.com for the most up-to-date information on Miltenyi Biotec products.

Licenses

This product and/or its use may be covered by one or more pending or issued patents and/or may have certain limitations. Certain uses may be excluded by separate terms and conditions. Please contact your local Miltenyi Biotec representative or visit Miltenyi Biotec's website at www.miltenyibiotec.com for more information.

The purchase of this product conveys to the customer the non-transferable right to use the purchased amount of the product in research conducted by the customer (whether the customer is an academic or for-profit entity). This product may not be further sold. Additional terms and conditions (including the terms of a Limited Use Label License) may apply.

CUSTOMER'S USE OF THIS PRODUCT MAY REQUIRE ADDITIONAL LICENSES DEPENDING ON THE SPECIFIC APPLICATION. THE CUSTOMER IS SOLELY RESPONSIBLE FOR DETERMINING FOR ITSELF WHETHER IT HAS ALL APPROPRIATE LICENSES IN PLACE. Miltenyi Biotec provides no warranty that customer's use of this product does not and will not infringe intellectual property rights owned by a third party. BY USE OF THIS PRODUCT, THE CUSTOMER AGREES TO BE BOUND BY THESE TERMS.

Trademarks

The Miltenyi Biotec logo is a registered trademark or trademark of Miltenyi Biotec and/or its affiliates in various countries worldwide. All other trademarks mentioned in this publication are the property of their respective owners and are used for identification purposes only.

Copyright © 2020 Miltenyi Biotec and/or its affiliates. All rights reserved.