

PlateReady™ A549 96 Well Plates

REF: A5490096PSCLLOW, A5490096PSCLMID, A5490096PSCLHIG

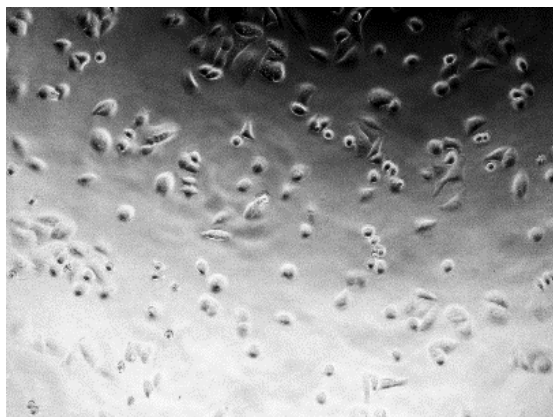
For research use only. Not for use in diagnostic procedures.

Description

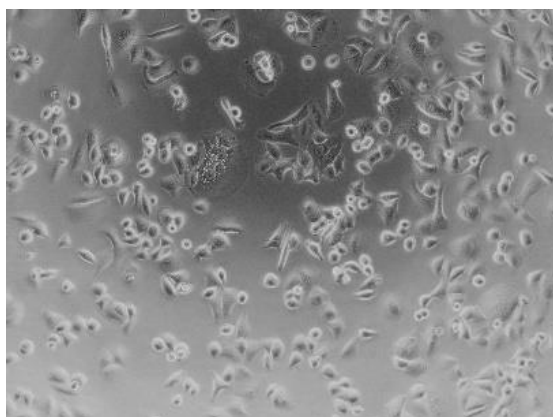
PlateReady™ A549 96 Well Plates contain adherent human lung carcinoma epithelial cells cryopreserved directly adhered to 96 well plates with the use of CryoLogyx's patented CryoShield™ formulation. A549 is a well characterised cell line that has been widely used to model lung cancer and type II alveolar epithelium.^{1,2} The efficacy of drug therapies and delivery systems is often initially determined utilising A549 cells. PlateReady™ A549 96 Well Plates are compatible with all major assays 24 hours after thawing. Over 80% cell viability is expected post-thaw, with cells retaining healthy morphology, immediate proliferative capacity, metabolic activity and membrane integrity.³

PlateReady™ A549 96 Well Plates are provided at three different confluency levels:

- Low (A5490096PSCLLOW), 20 – 30% confluency, ~7k cell per well



- Medium (A5490096PSCLMID), 40 – 60% confluency, ~15k cell per well



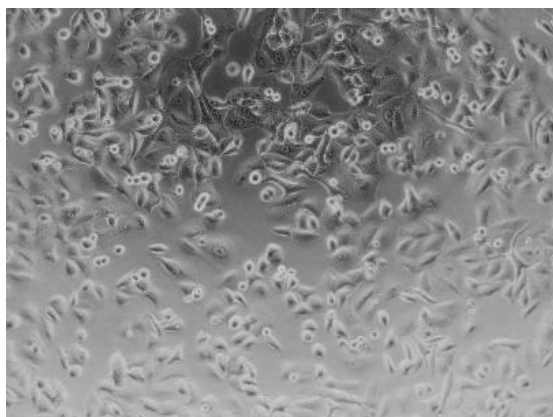
Product Specification

PlateReady™



Simplifying and accelerating cell-based assays

- High (A5490096PSCLHIG), > 70% confluency, ~25k cell per well



Application Notes

PlateReady™ A549 96 Well Plates can be used to replace conventionally cultured cells for all major assays including proliferation, viability, and drug IC₅₀ screening.

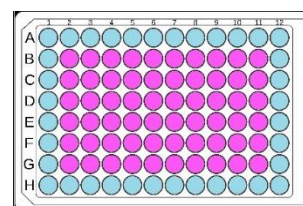
[Application Notes](#) for the following assays are available:

- Proliferation
- Resazurin reduction (metabolic)
- Calcein and ethidium iodide staining
- Imaging caspase-3/-7 activation in real-time
- Drug IC₅₀ value determination

Content

Cryopreserved adherent A549 cells in a 96 well plate. Each well contains 100 µL of CryoLogyx's proprietary cryoprotectant formulation.

No cells are present in rows A and H and columns 1 and 12 to avoid assay edge effects (blue on diagram).



Receipt & Storage

Product shipment: Dry ice. Upon receipt, confirm that dry ice is covering the PlateReady™ A549 96 Well Plates

Product storage: immediately transfer to -80 °C freezer. Note: Storage at higher temperatures (>-80 °C) may affect the expiry date stated on the packaging.

Product use: Consult the "[General Thaw-and-Use PlateReady™ A549 96 Well Plates Protocol](#)" when thawing. Thawed products cannot be re-frozen.

Symbols on Labels

 Reference number

 Lot number

 Expiry date



Packaging & Plate Information

Information on packaging: Reference number, lot number, expiry date, Quickstart guide, QR code for further detailed instructions.

Information on well plate: cell type, passage number and lot number encoded barcode

Plate dimensions: The 96 well plates used to produce PlateReady™ A549 96 Well Plates are sourced from Greiner Bio-one (catalogue code 655180). The exact [dimensions](#) and [datasheets](#) can be found on the Greiner Bio-one website.

Precautions

This product is for professional laboratory use only. The data and results produced using PlateReady™ A549 96 Well Plates should not be used for diagnostic purposes, therapeutics or human and animal consumption.

PlateReady™ A549 96 Well Plates utilise a549 cells sourced from ATCC (CCL-185™). A549 cells are classified as BSL 1 and are of minimal risk to the user. However, it is the users responsibility to understand the hazards associated with the material per the organisation's policies and procedures as well as any other applicable regulations enforced by your local or national agencies.

CryoLogyx highly recommends that appropriate personal protective equipment is used when removing the plates from dry ice shipping and handling plates stored at -80 °C.

Certificate of Analysis

Certificate of analysis is available on delivery and can also be requested at www.cryologyx.com or by email at info@cryologyx.com.

Warranty

CryoLogyx possesses a limited warranty restricting our liability to replace this product. CryoLogyx does not provide any other warranties of any kind, expressed

or implied. However, our customer service team are willing to deal with requests case-by-case.

Proprietary Information

The recipient of PlateReady™ A549 96 Well Plates agrees to use the product for the purposes of conducting assays and not to subculture or give them to a third party.

The cryoprotectant formulations used to produce CryoLogyx products are covered by patents which is the property of CryoLogyx and the University of Warwick. Use of the cryoprotectant formulation or any attempt to reverse engineer the formulation is an infringement of these patents unless CryoLogyx has provided written permission.

Contact Information

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References

1. Foster, K. A.; Oster, C. G.; Mayer, M. M.; Avery, M. L. and Audus, K. L. *Experimental Cell Research*, 1998, 243, 359–366.
2. Gao, Y.; Dorn, P.; Liu, S.; Deng, H.; Hall, S. R. R.; Peng, R. W.; Schmid and Marti, T. M. *Cancer Cell International*, 9 (317), 1–16.
3. Tomás, R. M. F.; Bissoyi, A.; Congdon, T. R.; Gibson, M. I. *Biomacromolecules* 2022, 23 (9), 3948–3959.