

## PlateReady™ HepG2 96 Well Plates

REF: HPG20096PSCLOW, HPG20096PSCLMID, HPG20096PSC LHIG

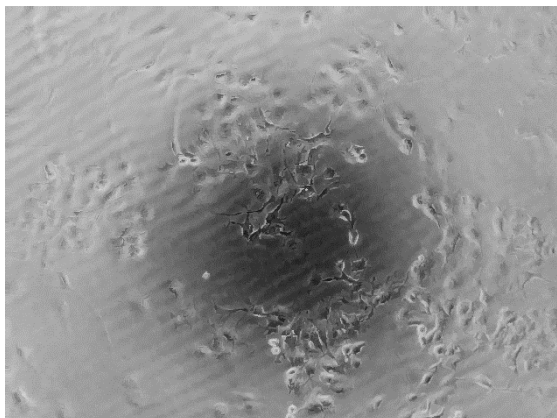
*For research use only. Not for use in diagnostic procedures.*

### Description

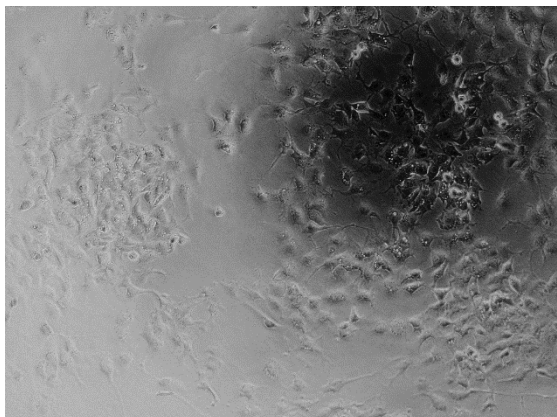
PlateReady™ HepG2 96 Well Plates contain human hepatocellular carcinoma derived cells cryopreserved directly adhered to 96 well plates with the use of CryoLogyx's patented CryoShield™ formulation. HepG2 cells perform many differentiated hepatic functions, making them the most widely used cell line in drug discovery for drug metabolism and hepatotoxicity testing.<sup>1,2</sup> PlateReady™ HepG2 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.<sup>3,4</sup>

PlateReady™ HepG2 96 Well Plates are provided at three different confluency levels:

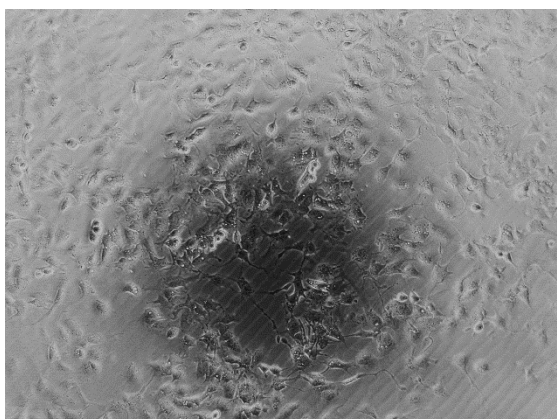
- Low (HPG20096PSCLOW), 20 – 30% confluency, ~7k cell per well



- Medium (HPG20096PSCLMID), 40 – 60% confluency, ~15k cell per well



- High (HPG20096PSCLHIG), > 70% confluency, ~25k cell per well



### Application Notes

PlateReady™ HepG2 96 Well Plates can be used to replace conventionally cultured cells for all major assays including proliferation, viability, hepatic function, and drug IC<sub>50</sub> determination.

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

- Proliferation
- Resazurin reduction (metabolic)
- Calcein and ethidium iodide staining
- Intracellular and extracellular lactate dehydrogenase content
- Imaging caspase-3/-7 activation in real-time
- CYP450 activity
- Urea secretion
- Lipid droplet staining

## Product Specification

### PlateReady™



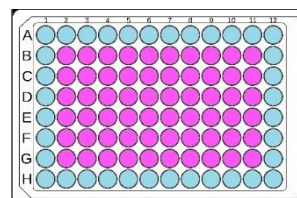
Simplifying and accelerating cell-based assays

- Drug IC<sub>50</sub> value determination

### Content

Cryopreserved adherent HepG2 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™ HepG2 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™ HepG2 96 Well Plates Protocol](#)" when thawing. Thawed products cannot be re-frozen.

### Symbols on Labels

**REF** Reference number

**LOT** 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™ HepG2 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™ HepG2 96 Well Plates should not be used for diagnostic purposes, therapeutics or human and animal consumption.

PlateReady™ HepG2 96 Well Plates utilise HepG2 cells sourced from ATCC (HB-8065™). HepG2 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](http://www.cryologyx.com) or by email at [info@cryologyx.com](mailto: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™ HepG2 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.

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#### References

1. Rudzok, S.; Schlink, U.; Herbarth, O.; Bauer, M. *Toxicol Appl Pharmacol* **2010**, *244* (3), 336–343.
2. Lecluyse, E. L. *European Journal of Pharmaceutical Sciences* **2001**, *13*, 343–368.
3. Tomás, R. M. F.; Bissoyi, A.; Congdon, T. R.; Gibson, M. I. *Biomacromolecules* **2022**, *23* (9), 3948–3959.
4. Tomás, R. M. F.; Dallman, R.; Congdon, T. R.; Gibson, M. I. *ACS Biomaterials Science & Engineering* **2023** (under review)