

## PlateReady™ Assay-Ready Plates: Removing Cell Culture from Drug Screening

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### The Challenges of Cell Culture

Cell culture plays a critical role in biomedical discovery and drug development. Although in vitro cell-based assays are required, routine cell culture can often become a bottleneck, hindering the automation and efficiency of screening processes. Instead of diving directly into value added research and development activities, researchers are spending hours every week maintaining cell lines or waiting for weeks to expand cells. Disruptions from contaminated working lines, genetic drift and excessive plastic waste are also associated with routine cell culture.<sup>1-3</sup>



### Introducing PlateReady™ HepG2 96 Well Plates

PlateReady™ HepG2 96 well plates contain cells pre-adhered to microplates that are cryopreserved using Cryoshield™, CryoLogyx's patented cryoprotectant formulation. The plates are stored at -80°C until you're ready to start your experiment, minimising contamination risks and genetic drift. Cells are thawed using standard cell culture medium and drug screening can commence within just 24 hours.

No counting, passaging, or plating required.

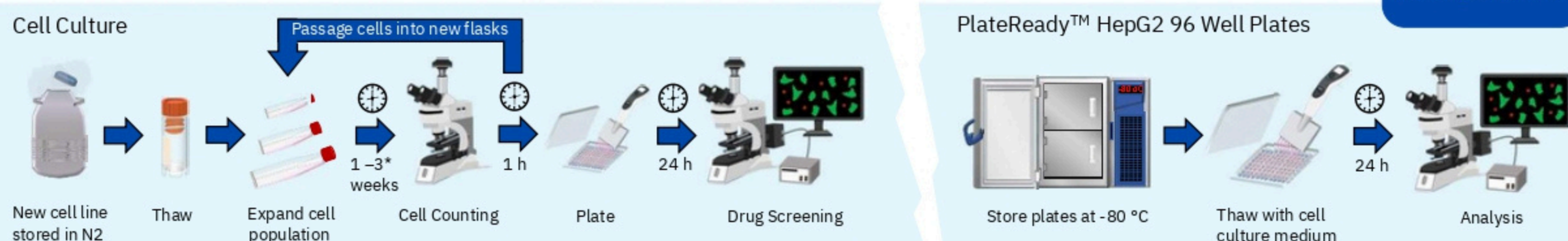
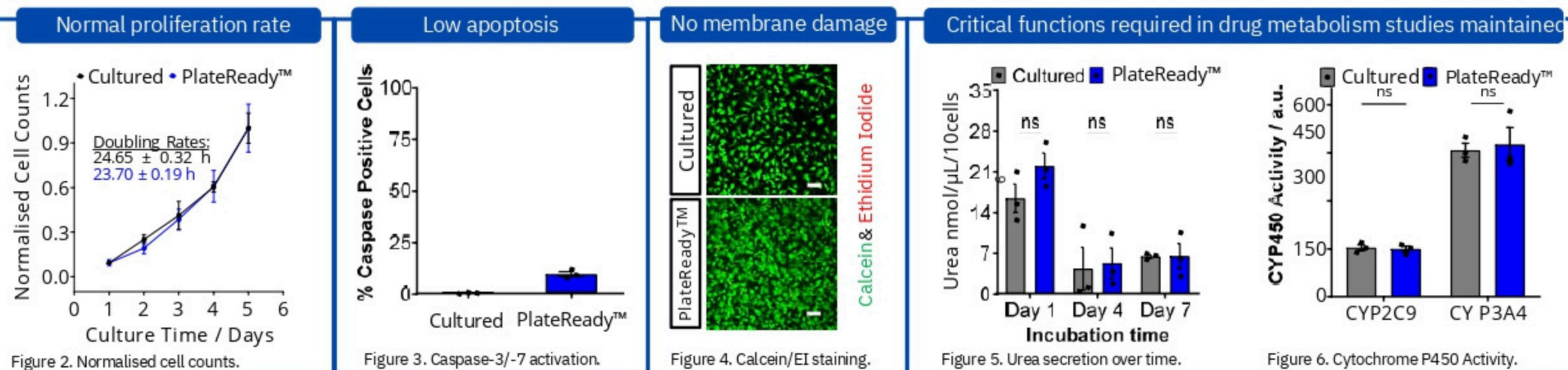


Figure 1. Illustration of routine cell culture steps compared to PlateReady™ HepG2 96 well plates. \*Expansion time for cell lines thawed from N2 is dependent on cell type. If cell line is established, then 2 –3 days is required.

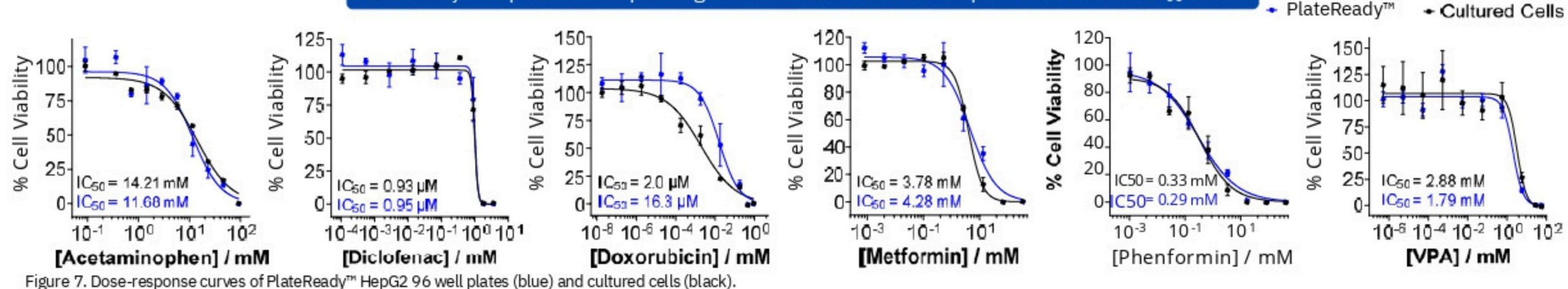
### Identical Performance to Cultured Cells

The HepG2 cell line exhibits many differentiated hepatic functions, making it the most widely employed cell line in drug candidate screening.<sup>4</sup>

PlateReady™ HepG2 96 well plates perform identically to cultured cells in all major assays tested, 24 hours after thawing.



### PlateReady™ HepG2 96 well plates generated identical dose-response curves and IC<sub>50</sub> values



Generate data in just 24 hours with PlateReady™ HepG2 96 well plates, no cell culture needed.

Streamline your drug screening programs now!

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