Storage of liver organoids at room temperature using WellReady™

The use of organoids for disease modelling, drug discovery and personalised medicine has become increasingly popular. Processes for the generation and maintenance of organoids can be complex, requiring high technical awareness. Additionally, some organoid models are unsuitable for storage and shipment by freeze/thaw. WellReady[™] offers a simple solution to these challenges, allowing for the shipment of developed organoid models at ambient temperatures, supplying the end-user with a ready to use model.

Overview

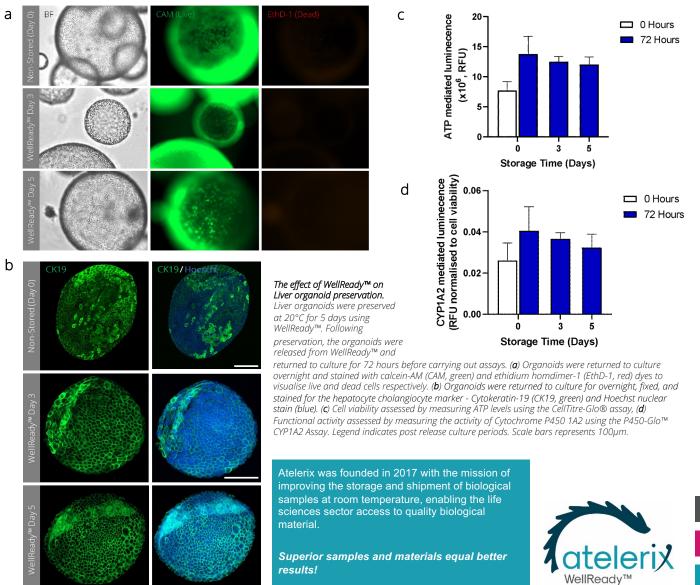
Liver organoids are important in drug discovery and toxicology due to their drug metabolising capability. This study found that liver organoids can be stored for 5 days at room temperature in readyto-ship plates using WellReady™,

maintaining their morphology, viability and function. structural integrity,

Liver organoids maintain their structure and function when stored in plate using WellReady™

iPSC-derived murine liver organoids were cultured in a Matrigel matrix in 48 well plates. Once mature, the organoids were stored at 20°C for 5 days using WellReady[™]. Upon release the organoids retained:

- High viability and continued growth
- Structure and hepatic marker expression
- Functionally active drug metabolising enzymes after 72 hours in culture.



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