



#### Product Description

iPSC-Derived Liver Organoids (iLiver) provide a physiologically relevant 3D model for studying liver biology, disease mechanisms, and drug responses. Generated from human induced pluripotent stem cells, iLiver organoids recapitulate key structural and functional features of native liver tissue, including hepatocyte-like cells and supporting stromal components. Each lot is rigorously characterized by expression of ALBUMIN and CYP3A4, along with functional validation of metabolic activity and bile acid processing, ensuring reproducibility and quality.

We are developing a panel of iLiver organoids from iPSCs derived from patients with liver-related diseases, enabling disease-specific research and translational studies.

iLiver organoids are ideally suited for hepatotoxicity testing, drug metabolism studies, disease modeling, gene therapy evaluation, and regenerative medicine applications, providing a scalable and reliable platform for advancing liver research and precision medicine.

#### Stability and Storage

Upon receipt, immediately transfer the cells from dry ice to liquid nitrogen storage, and maintain them in liquid nitrogen until ready for experimental use.

#### Shipping

Cryopreserved cells are shipped on dry ice. Live cells are shipped at ambient temperature.

#### Product Use

The products are for research use only. They are not approved for human or animal use, or for application in in vitro diagnostic procedures.

#### Contact Us

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## iPSC-Derived Liver Organoids Kit (iLiver) (Normal, Diseased, Engineered)

#### Quality Control:

Catalog Number	ILC-2019
Organism	<i>Homo sapiens</i>
Donor/Tissue/Medical History	See CoA for the detailed information
Product Format	Cryopreserved, or Live Cell Culture
Culture Properties	Suspension
Total Cell Number	400 organoids /vial
Viability	>90%
Human Pathogen	Negative
Bacterial, Fungi, Mycoplasma	Negative
Biomarker Expression	Positive (>80% of ALB+)

#### Representative Dataset:

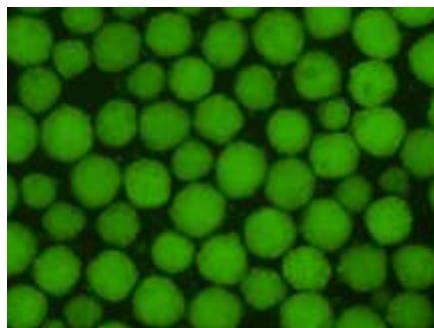


Figure 1. Images of iLiver derived from a GFP-expressing iPSC line.

#### Cell Thawing and Culture Protocol:

1. Thaw the cells rapidly in a 37 °C water bath.
2. Transfer the thawed cells into a 15 mL conical tube.
3. Gently add 2 mL of iLiver Culture Media (Cat# ILC0019M) to the tube.
4. Centrifuge at 100 × g for 2 minutes at room temperature.
5. Carefully aspirate the supernatant.
6. Gently resuspend the cell pellet in 2 mL of iLiver Culture Medium.
7. Seed the organoids onto Non-treated TC plates (typically, one vial yields 1 well of a 6-well plate).
8. Gently distribute the organoids evenly across the wells.
9. Incubate overnight at 37 °C in a CO<sub>2</sub> incubator.
10. Change media daily.

#### Related Products:

iLiver Culture Medium (Catalog Number: ILC0019M) is specifically formulated to support iPSC-derived Liver Organoid (iLiver) recovery and maintenance.