iPSC-Derived Hepatocyte Kit (iHepatocyte) (Normal, Diseased, Engineered)

Product Description

iPSC-Derived Hepatocytes (iHepatocytes) provide a physiologically relevant and renewable model for studying liver development, function, and disease. Generated from human induced pluripotent stem cells, iHepatocytes recapitulate the morphology and metabolic activity of primary hepatocytes while overcoming donor variability and limited supply. Each lot is rigorously validated by expression of albumin (ALB) and cytochrome P450 enzymes (e.g., CYP3A4), confirming hepatic identity and functionality.

We are developing a panel of iPSC-derived hepatocytes (iHepatocytes) from patients with liver-related diseases, enabling disease-specific modeling, drug response profiling, and therapeutic discovery.

iHepatocytes are ideally suited for studying hepatotoxicity, drug metabolism, liver disease mechanisms, gene therapy testing, and regenerative medicine applications, providing a standardized, reproducible, and scalable platform for advancing liver research and translational science.

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

www.i-linkbio.com
sales@i-linkbio.com

Quality Control:

Catalog Number	**ILC-2015**
Organism	*Homo sapiens*
Donor/Tissue/Medical History	See CoA for the detailed information
Product Format	Cryopreserved, or Live Cell Culture
Culture Properties	Adherent
Total Cell Number	1x10^6 cells/vial
Viability	>90%
Human Pathogen	Negative
Bacterial, Fungi, Mycoplasma	Negative
Biomarker Expression	Positive (>80% of ALB+)

Representative Dataset:

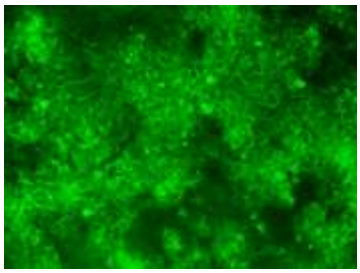

Figure 1. Antibody staining images of iHepatocytes (Green: Albumin, Blue: DAPI)

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 iHepatocyte Culture Media (Cat# ILC0015M) to the tube.
4. Centrifuge at 200 × g for 2 minutes at room temperature.
5. Carefully aspirate the supernatant.
6. Resuspend the cell pellet in 2 mL of iHepatocyte Culture Medium.
7. Seed the cells onto Matrigel coated plates (typically, one vial yields 1 well of a 6-well plate).
8. Gently distribute the cells evenly across the wells.
9. Incubate overnight at 37 °C in a CO_2 incubator.
10. Change media daily.

Related Products:

iHepatocyte Culture Medium (Catalog Number: ILC0015M) is specifically formulated to support iPSC-derived Hepatocyte (iHepatocyte) recovery and maintenance.