



### Product Description

iPSC-Derived Heart Organoids (iHeart) provide a physiologically relevant 3D model for studying cardiac development, function, and disease. Generated from human induced pluripotent stem cells, iHeart organoids recapitulate key structural and functional features of heart tissue, including cardiomyocytes, endothelial cells, and supporting stromal cells. Each lot is rigorously characterized by expression of cardiac troponin T (cTnT) and NKX2.5, and validated for synchronized beating and contractile function, ensuring reproducibility and quality.

We are developing a panel of iHeart organoids from iPSCs derived from patients with cardiovascular diseases, providing disease-specific platforms for translational research.

iHeart organoids are ideally suited for cardiovascular disease modeling, drug screening, cardiotoxicity testing, regenerative medicine studies, and gene therapy evaluation, offering a scalable and reliable platform for advancing heart research.

### 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 Heart Organoids Kit (iHeart) (Normal, Diseased, Engineered)

### Quality Control:

<b>Catalog Number</b>	<b>ILC-2020</b>
<b>Organism</b>	<i>Homo sapiens</i>
<b>Donor/Tissue/Medical History</b>	See CoA for the detailed information
<b>Product Format</b>	Cryopreserved, or Live Cell Culture
<b>Culture Properties</b>	Suspension
<b>Total Cell Number</b>	400 organoids /vial
<b>Viability</b>	>90%
<b>Human Pathogen</b>	Negative
<b>Bacterial, Fungi, Mycoplasma</b>	Negative
<b>Biomarker Expression</b>	Positive (>80% of cTnT+)

### Representative Dataset:

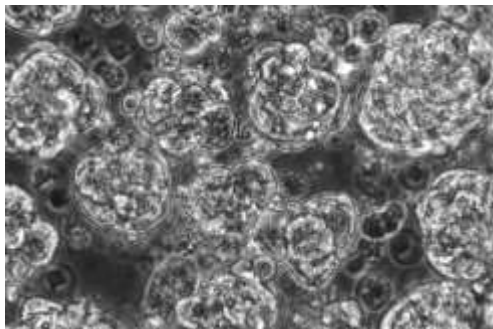


Figure 1. The Bright Field Image of iHearts (Contact us to get the videos).

### 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 iHeart Culture Media (Cat# ILC0020M) 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 iHeart 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:

iHeart Culture Medium (Catalog Number: ILC0020M) is specifically formulated to support iPSC-derived Heart Organoid (iHeart) recovery and maintenance.