



### Product Description

iPSC-Derived Beta Cells (iBeta) offer a renewable and physiologically relevant source of insulin-producing pancreatic cells for diabetes research and translational applications. Generated from human induced pluripotent stem cells, iBeta cells mimic the identity and function of primary pancreatic  $\beta$  cells. Each batch is quality-controlled through the expression of PDX1 and NKX6.1, as well as functional validation of insulin and C-peptide secretion in response to glucose stimulation, ensuring consistency and reliability.

We are establishing a panel of iBeta cells from iPSCs derived from patients with diabetes and related metabolic disorders, providing a powerful platform for disease-specific modeling.

iBeta cells enable studies in diabetes pathogenesis, drug screening, regenerative medicine, and cell replacement therapy development, accelerating progress toward precision medicine for metabolic diseases.

### 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 Beta Cells (iBeta) (Normal, Diseased, Engineered)

### Quality Control:

Catalog Number	ILC-2018
Organism	<i>Homo sapiens</i>
Donor/Tissue/Medical History	See CoA for the detailed information
Product Format	Cryopreserved, or Live Cell Culture
Culture Properties	Adherent
Total Cell Number	$1 \times 10^6$ cells/vial
Viability	>90%
Human Pathogen	Negative
Bacterial, Fungi, Mycoplasma	Negative
Biomarker Expression	Positive (>80% of Insulin+)

### Representative Dataset:

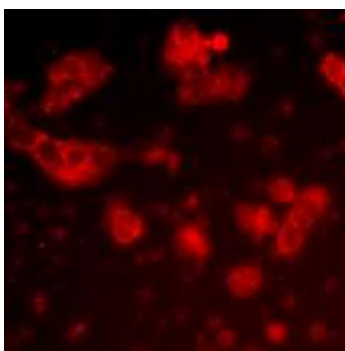


Figure 1. Antibody Staining Images of iBeta cells (Red: Insulin).

### 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 iBeta Culture Media (Cat# ILC0018M) to the tube.
4. Centrifuge at  $200 \times g$  for 2 minutes at room temperature.
5. Carefully aspirate the supernatant.
6. Resuspend the cell pellet in 2 mL of iBeta 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<sub>2</sub> incubator.
10. Half change media daily.

### Related Products:

iBeta Culture Medium (Catalog Number: ILC0018M) is specifically formulated to support iPSC-derived Beta Cell (iBeta) recovery and maintenance.