

Cellartis® Definitive Endoderm Cells (from ChiPSC18)

Catalog No. Y10040	Amount 1 vial	Lot Number Specified on product label
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Description

Cellartis Definitive Endoderm Cells (from ChiPSC18) are human definitive endoderm (DE) cells derived from Cellartis Human iPS Cell Line 18 (ChiPSC18). The cells have been differentiated to definitive endoderm cells *in vitro*, dissociated to a cell suspension, and frozen in vials.

Package Contents

- 1 vial of Cellartis Definitive Endoderm Cells (from ChiPSC18) ($\geq 6 \times 10^6$ viable cells/vial)

Storage Conditions

- Store cells in liquid nitrogen (-196°C) or in a -150°C freezer

Shelf Life

- 1 year from date of receipt under proper storage conditions

Storage Medium

- Cell freezing medium containing 10% DMSO

Shipping Conditions

- Dry ice (-70°C)

Product Documents

Documents for Takara Bio Europe AB products are available for download at www.takarabio.com/manuals
The following documents apply to this product:

- Cellartis Definitive Endoderm Cells (from ChiPSC18) User Manual
- Cellartis Hepatocyte Differentiation Kit User Manual

Cell Type Information

Cellartis Definitive Endoderm Cells (from ChiPSC18) are human DE cells derived from Cellartis Human iPS Cell Line 18 (ChiPSC18) (Cat. No. Y00300; not sold separately).

Recommended Cell Culture Medium and Coating Substrate

For further differentiation of DE cells into hepatocytes it is strongly recommended to use the Cellartis Hepatocyte Differentiation Kit (Cat. No. Y30050) with a recommended seeding density of 1.25×10^5 DE cells/cm².

For other applications, DE cells can be seeded on Cellartis DEF-CS™ 500 COAT-1 (Cat. No. Y30012) or iMatrix-511 (Cat. No. T303). Thawing on other coatings might require optimization depending on the chosen application.

Keep thawed Cellartis Definitive Endoderm Cells (from ChiPSC18) at $37^{\circ}\text{C} \pm 1^{\circ}\text{C}$, 5% CO₂ and $\geq 90\%$ humidity.

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Safety Precautions

Cellartis Definitive Endoderm Cells (from ChiPSC18) contain human source material and should be treated as potentially infectious. Discard cell contaminated materials according to local regulations.

Wear suitable protective clothing, safety glasses and gloves when handling liquid nitrogen.

Additional Notes

One vial contains 6 million viable DE cells and the cells can be seeded into any format; e.g. 96-well plates, 24-well plates, or T25 cell culture flasks.

Quality Control Data

Functional Tests

Cellartis Definitive Endoderm Cells (from ChiPSC18) morphology has been evaluated and confirmed after thawing. Expression of SOX-17 and lack of OCT-4 have been confirmed by ICC.

***Mycoplasma* Contamination Test**

Cellartis Definitive Endoderm Cells (from ChiPSC18) have been tested and found to be free of *Mycoplasma* contamination.

Bacterial and Fungal Contamination Test

Cellartis Definitive Endoderm Cells (from ChiPSC18) have been tested and found to be free of bacterial and fungal contamination.

Human Viral Contamination Test

The primary cell line used to establish this product has been verified to be negative for human viruses (HBV, HCV, HIV1, HIV2, HTLV1 and HTLV2)

Notice to Purchaser

This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals. Also, do not use this product as food, cosmetic, or household item, etc.

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"Product" means the differentiated cells manufactured and sold by Takara Bio Inc.

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