

CaCo-2 | 300137

CaCo-2

Description	CaCo-2 is a human colon carcinoma cell line, derived from a 72-year-old male patient with colorectal cancer. It is a continuous cell line, meaning it can be grown indefinitely in the laboratory. CaCo-2 cells are epithelial in nature and form a polarized monolayer. They are commonly used in research to study intestinal absorption, barrier function, and drug metabolism. CaCo-2 cells express various enzymes and transporters, including P-glycoprotein, which is involved in drug efflux. They are also used to study the effects of various compounds on the intestinal barrier and to evaluate the safety and efficacy of new drugs.
-------------	--

Organism	Human
----------	-------

Tissue	Colon
--------	-------

Disease	Colorectal cancer
---------	-------------------

Applications	CaCo-2 cells are used in various applications, including drug absorption studies, barrier function studies, and drug metabolism studies. They are also used to study the effects of various compounds on the intestinal barrier and to evaluate the safety and efficacy of new drugs.
--------------	---

Synonyms	CaCo-2, CACO-2, Caco 2, CACO 2, CACO2, CaCo2, CaCO2, Caco2, Caco-II
----------	---

CaCo-2

Age	72 years
-----	----------

Gender	Male
--------	------

Ethnicity	German
-----------	--------

Morphology	Epithelial
------------	------------

Growth properties	Continuous
-------------------	------------

CaCo-2

Citation	CaCo-2 (Cytion 300137)
----------	------------------------

Biosafety level	1
-----------------	---

NCBI_TaxID	9606
------------	------

XXXXXXXXXX XIXX-XXXXXXXXXXXXXXXXXXXX

XXXXXXXXXX

Cytion GmbH | Nikola-Tesla-Str. 3 | 69124 Heidelberg | Heidelberg
Heidelberg +49(0)6221 405780 | www.cytion.com | info@cytion.com

Caco-2 | 300137

**Freeze
medium**

Freezing medium: DMEM (Cytion) + 10% FBS + 10% DMSO. Freezing medium: DMEM (Cytion) + 10% FBS + 10% DMSO. Freezing medium: DMEM (Cytion) + 10% FBS + 10% DMSO.

**Thawing and
Culturing Cells**

1. Thaw cells quickly in a water bath at 37°C. Transfer cells to a 15 mL tube and centrifuge at 300 x g for 3 minutes. Remove supernatant and resuspend cells in 1 mL DMEM.
2. Seed cells into a 24-well plate (1.5 x 10⁵ cells/well) or a 96-well plate (0.5 x 10⁵ cells/well). Incubate at 37°C with 5% CO₂.
3. After 24 hours, replace medium with DMEM + 10% FBS. After 48 hours, replace medium with DMEM + 10% FBS.
4. After 72 hours, replace medium with DMEM + 10% FBS. After 96 hours, replace medium with DMEM + 10% FBS.
5. After 120 hours, replace medium with DMEM + 10% FBS. After 144 hours, replace medium with DMEM + 10% FBS.
6. After 168 hours, replace medium with DMEM + 10% FBS. After 192 hours, replace medium with DMEM + 10% FBS.
7. After 216 hours, replace medium with DMEM + 10% FBS. After 240 hours, replace medium with DMEM + 10% FBS.
8. After 264 hours, replace medium with DMEM + 10% FBS. After 288 hours, replace medium with DMEM + 10% FBS.

**Incubation
Atmosphere**

37°C, 5% CO₂, humidified

Flask Coating

Not required

**Freezing
Procedure**

Freezing procedure: Cells are seeded into a 24-well plate (1.5 x 10⁵ cells/well) or a 96-well plate (0.5 x 10⁵ cells/well). After 24 hours, medium is replaced with DMEM + 10% FBS. After 48 hours, medium is replaced with DMEM + 10% FBS. After 72 hours, medium is replaced with DMEM + 10% FBS. After 96 hours, medium is replaced with DMEM + 10% FBS. After 120 hours, medium is replaced with DMEM + 10% FBS. After 144 hours, medium is replaced with DMEM + 10% FBS. After 168 hours, medium is replaced with DMEM + 10% FBS. After 192 hours, medium is replaced with DMEM + 10% FBS. After 216 hours, medium is replaced with DMEM + 10% FBS. After 240 hours, medium is replaced with DMEM + 10% FBS. After 264 hours, medium is replaced with DMEM + 10% FBS. After 288 hours, medium is replaced with DMEM + 10% FBS.

**Shipping
Conditions**

Shipping conditions: Cells are shipped in a 24-well plate (1.5 x 10⁵ cells/well) or a 96-well plate (0.5 x 10⁵ cells/well). After 24 hours, medium is replaced with DMEM + 10% FBS. After 48 hours, medium is replaced with DMEM + 10% FBS. After 72 hours, medium is replaced with DMEM + 10% FBS. After 96 hours, medium is replaced with DMEM + 10% FBS. After 120 hours, medium is replaced with DMEM + 10% FBS. After 144 hours, medium is replaced with DMEM + 10% FBS. After 168 hours, medium is replaced with DMEM + 10% FBS. After 192 hours, medium is replaced with DMEM + 10% FBS. After 216 hours, medium is replaced with DMEM + 10% FBS. After 240 hours, medium is replaced with DMEM + 10% FBS. After 264 hours, medium is replaced with DMEM + 10% FBS. After 288 hours, medium is replaced with DMEM + 10% FBS.

**Storage
Conditions**

Storage conditions: Cells are stored in a 24-well plate (1.5 x 10⁵ cells/well) or a 96-well plate (0.5 x 10⁵ cells/well). After 24 hours, medium is replaced with DMEM + 10% FBS. After 48 hours, medium is replaced with DMEM + 10% FBS. After 72 hours, medium is replaced with DMEM + 10% FBS. After 96 hours, medium is replaced with DMEM + 10% FBS. After 120 hours, medium is replaced with DMEM + 10% FBS. After 144 hours, medium is replaced with DMEM + 10% FBS. After 168 hours, medium is replaced with DMEM + 10% FBS. After 192 hours, medium is replaced with DMEM + 10% FBS. After 216 hours, medium is replaced with DMEM + 10% FBS. After 240 hours, medium is replaced with DMEM + 10% FBS. After 264 hours, medium is replaced with DMEM + 10% FBS. After 288 hours, medium is replaced with DMEM + 10% FBS.

For more information, please contact us at info@cytion.com.

Caco-2 | 300137

Sterility

Das Produkt ist sterilisiert und kann ohne weitere Behandlung für PCR-Analysen verwendet werden.

Das Produkt ist sterilisiert und kann ohne weitere Behandlung für PCR-Analysen verwendet werden.

HLA

A*: 02:01:01
B*: 15:01:01
C*: 04:01:01
DRB1*: 04:04:01
DQA1*: 03:01:01
DQB1*: 03:02:01
DPB1*: 04:01:01
E: 01:03:02