Intestinal Epithelial Differentiation Media for Caco-2 Cells

Human colon cancer-derived cells (Caco-2) are known to differentiate into intestinal epithelial-like cells by overcrowding culture, and are widely used in drug discovery research fields as a cell model that reproduces intestinal function in the small intestine.

This product is a serum-free medium for intestinal epithelial differentiation of Caco-2 cells. By utilizing this product, it is possible to shorten the differentiation period, which generally takes about 3 weeks, to about 5 days.

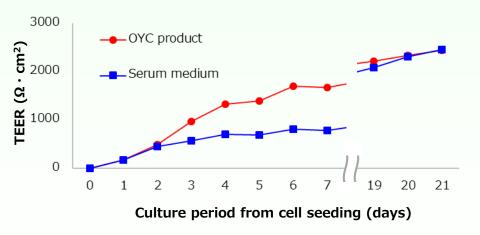
Product Specifications

Intestinal Epithelial Differentiation Media for Caco-2 Cells

Form:	Liquid	Carly - Artik Bill - Mirk Mir Her All, Mir - Artik Sander Bir Land - Karly - Standard -
Serum:	Free	and the second second
Volume:	250 mL per bottle	
Storage:	Refrigerated temperatures (1-10℃)	

<Application>





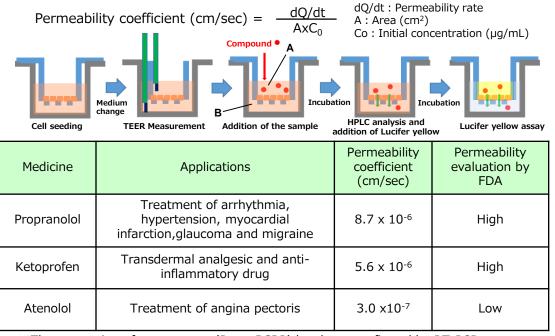
Caco-2 cells were seeded in 24-well plate culture inserts with $2x10^5$ cells (day 0) and replaced with each intestinal epithelial differentiation medium the next day (day 1). Then, the medium was exchanged with the intestinal epithelial differentiation medium every 1 to 2 days, and TEER (transepithelial electrical resistance) of monolayer was measured.

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Support For in vitro ADME/Tox research **OYC laboratory research reagents**

A test for intestinal absorption

A test for intestinal absorption was conducted using the intestinal epithelial differentiated by this product, and absorption was evaluated by HPLC analysis of the B side medium. The permeability coefficient was calculated by the following formula.



*The expression of transporters (P-gp, BCRP) has been confirmed by RT-PCR on the monolayer membrane formed by this product.

※It has been confirmed that Lucifer Yellow does not permeate the monolayer membrane formed by this product.

Product name	OYC No.	Package
Intestinal Epithelial Differentiation Media for Caco-2 Cells	47338000	250 mL

* For bulk inquiry, please contact our sales representative or visit the following website. * For research purposes only. Not for therapeutic or diagnostic use.

Reference cited this product

 Evidence-Based Complementary and Alternative Medicine 2022 Sep, Article ID 4139812, 9 pages.

Reference

• J Basic Clin Pharm. 2010 Mar;1(2):63-9. • Br J Pharmacol. 2012 Apr;165(8):2598-610.

Please contact the one that best suits your need. **ORIENTAL YEAST CO., LTD.**

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