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

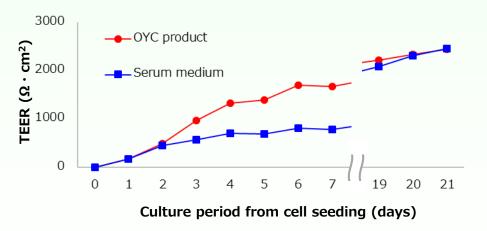
Intestinal Epithelial Differentiation Media for Caco-2 Cells

Form:	Liquid
Serum:	Free
Volume:	250 mL per bottle
Storage:	Refrigerated temperatures



<Application>





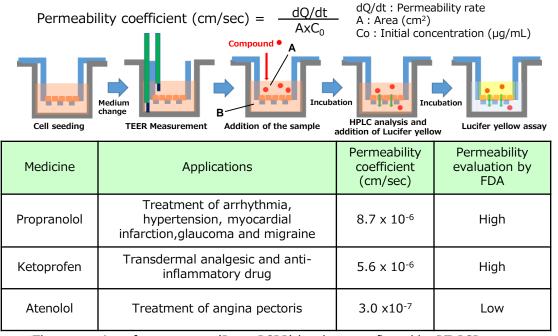
Caco-2 cells were seeded in 24-well plate culture inserts with $2x10^5$ cells (day 0) and replaced with each intestinal epithelial differentiation medium the next day (day 1). Then, the medium was exchanged with the intestinal epithelial differentiation medium every 1 to 2 days, and TEER (transepithelial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



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

• 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.

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