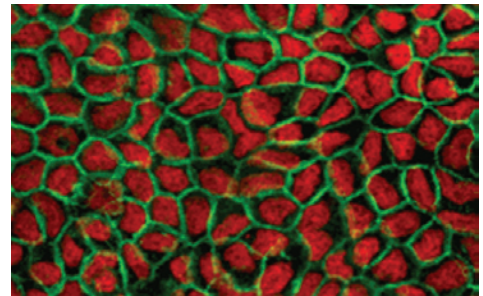


# CACOREADY™

## A Novel, Ready-to-Use System for In Vitro Intestinal Absorption Evaluations

### FEATURES AND BENEFITS

- Differentiated Caco-2 barrier (21-day system), plated on HTS Transwell®-96 or HTS Transwell-24 permeable supports.
- Integrated Transwells are to allow easier handling.
- Proprietary conditioning medium allows up to 5 days of transportation/storage at room temperature.
- User-friendly system and easy handling.
- Cost-effective for any size laboratory.



Confocal analysis of occludin staining (green) revealing tight junction status in CacoReady™ cell barrier.

### TECHNICAL DESCRIPTION

The CacoReady™ kit consists of differentiated Caco-2 cell barriers, shipped at day 13 of differentiation. It provides 14-day polarized cultures of Caco-2 cells on polycarbonate microporous filters in HTS Transwell-24 well or Transwell-96 well plates. The CacoReady™ Kit can be used up to 9 days after its reception. After post-conditioning this kit provides a 21-day Caco-2 barrier.

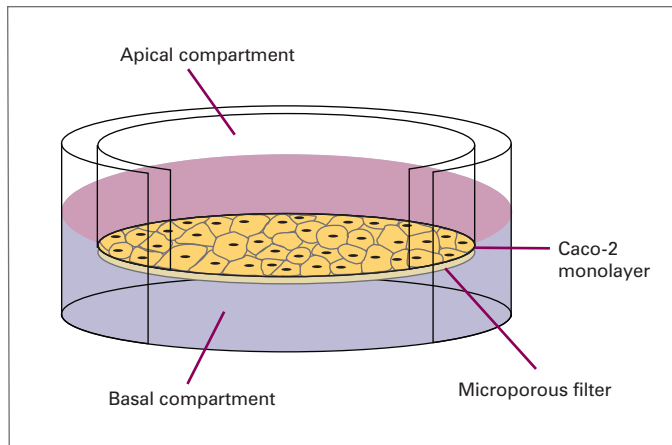
The intended use of this kit is for *in vitro* evaluation of oral absorption efficiency, high-throughput screening of compounds, oral bioavailability, oral toxicity, mechanisms for oral/intestinal absorption, research on new delivery systems and others.

### CAPABILITIES

- Oral absorption efficiency
- Compound screening
- Oral bioavailability
- Mechanisms for oral/intestinal absorption
- Oral toxicity
- Research on new delivery systems

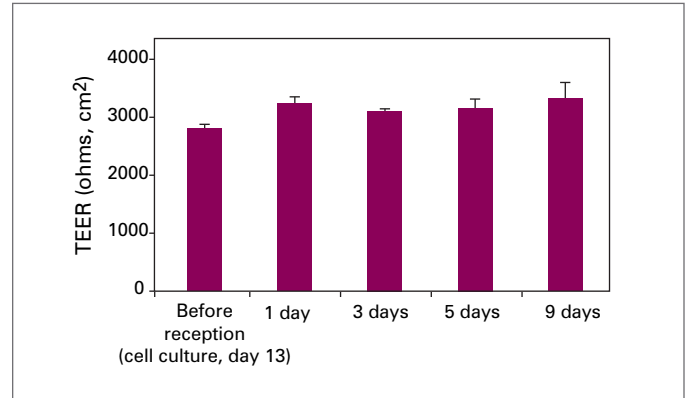
*Providing flexibility in designing and planning your experiments*

## DESCRIPTION



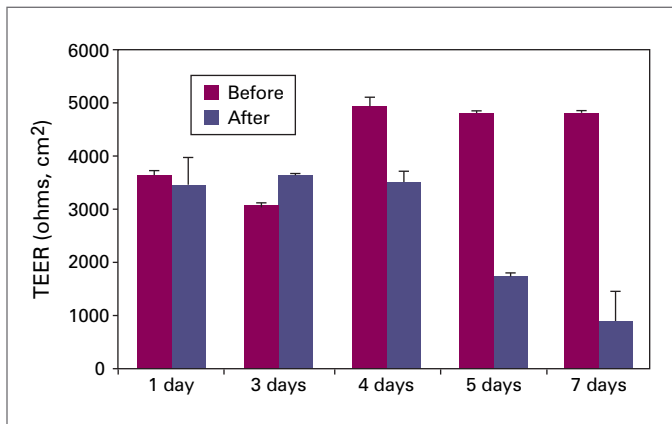
The CacoReady™ kit provides 14-day polarized cultures of Caco-2 cells on polycarbonate microporous filters in 24- or 96-well plates.

## STABILITY OF THE CACOREADY™ KIT UPON RECEIPT



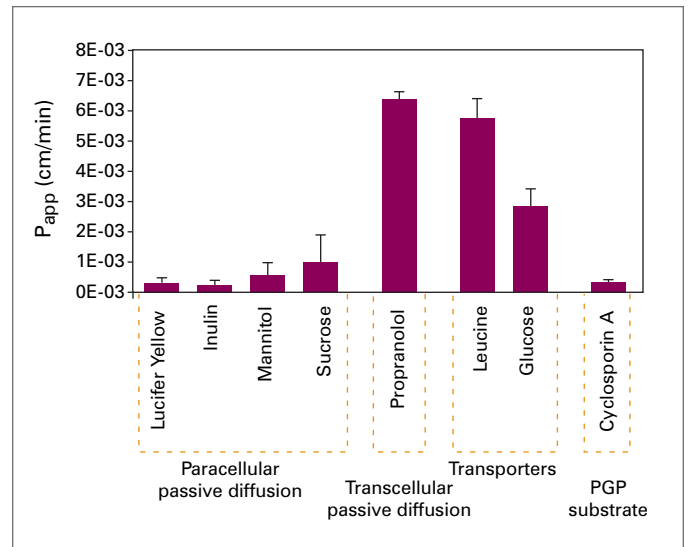
Immobilization was maintained during 72 hours at room temperature. The shipping medium was removed and TEER was measured after 1, 3, 5, and 9 days in standard culture conditions.

## STABILITY OF THE CACOREADY™ KIT DURING SHIPMENT



The functional stability of the CacoReady™ Kit as a ready-to-use product during shipping and storage is presented above. The 13-day Caco-2 cell monolayers were maintained in shipping medium for 1, 3, 4, 5, and 7 days, then their barrier status was evaluated by TEER (trans-epithelial electrical resistance) measurement before applying and 72 hours after removing the shipping medium. The cell monolayers showed reduced barrier properties only after 5 days in shipping medium. This result indicates that CacoReady™ can be stored and transported at room temperature up to 4 days without loss of Caco-2 barrier properties.

## APPARENT PERMEABILITY



Apparent permeability coefficient of standard compounds characterization.

## PRODUCT INFORMATION

Product Number	Product Name
001-1001	CacoReady™ 24-well Kit
001-1002	CacoReady™ 96-well Kit

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