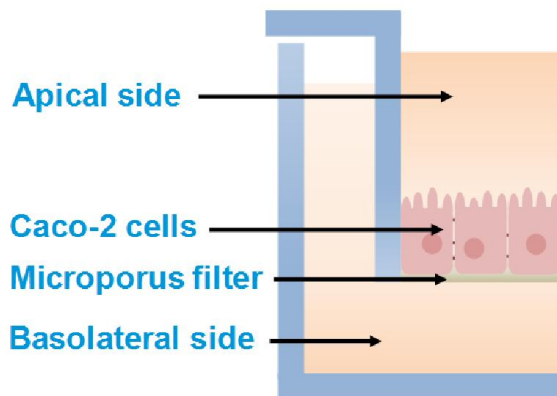




CacoReady™ is an innovative cell-based and ready-to-use kit. The kit consists of 24 and 96 insert-integrated permeable supports seeded with differentiated and polarized Caco-2 barriers. CacoReady™ allows *in vitro* intestinal absorption evaluation of drug targets. CacoReady™ is flexible since plates can be used up to 5 days after ideal cell barrier differentiation at day 21. CacoReady™ is a time and cost-saving tool for early stage drug discovery and development.



CacoReady™ Features

- Cell-based
- Ready-to-use
- 24 and 96-HTS insert- integrated plate format
- Exclusive solid shipping medium

CacoReady™ Applications

- Evaluation of oral absorption efficiency, oral bioavailability and oral toxicity
- Study of mechanisms involved in oral and intestinal absorption
- Studies of Drug Transporters and Drug-Drug Interaction
- Suitable for research on new delivery systems

CacoReady™ Benefits

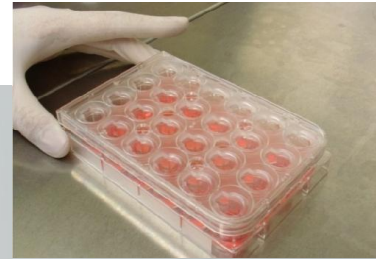
- Provides 21-day cell barrier allowing reduction of in house maintenance of Caco-2 cell cultures
- High flexibility as the kit is usable up to 5 days after 21-day cell barrier differentiation
- Time saving and cost-effective
- High reproducibility
- Adaptable to automated procedures and HTS
- Easy and clean handling
- Full cell functionality after transportation
- Shipping medium easy to remove by liquefaction at 37°C





Shipping medium

- ✓ Solid at room temperature (liquid at 37°C)
- ✓ Preserves cell viability
- ✓ Permits differentiation process progression
- ✓ Do not affect cell culture properties
- ✓ Do not perturb monolayer integrity



FOUR SIMPLE STEPS OF CacoReady™

RECEIVE

Ready-to-use cell barrier

LIQUIFY

Liquefying of solid shipping medium at 37°C

APPLY

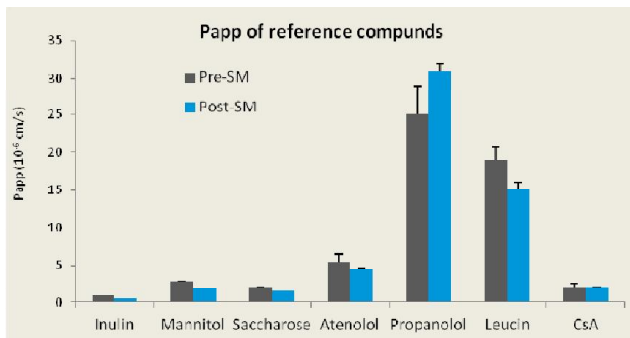
Incubation with test compound

ASSAY

Assessment of permeability /transport end point

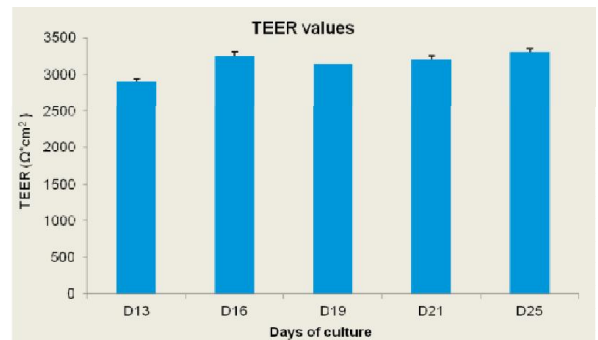
CacoReady™ Experimental data: Apparent permeability and TEER values

- Functionality after transportation/
Validated system under quality standards



Permeability of different reference compounds tested on CacoReady™ before and after the addition of the solid shipping medium. Results are expressed as Papp values for the apical to basal direction.

- Stability of Caco-2 barrier



Stability of Caco-2 barrier evaluated by TEER measurement at different days after the addition of the solid shipping medium (D16 to D25). Results show the flexibility of CacoReady™ since the kit is useable up to 5 days after the 21-day barrier.

- High reproducibility among batches

Figure shows the reproducibility of CacoReady™ kit among different batches. Permeability of different referent compounds tested on CacoReady™ kit. Results are expressed as the average of Papp values performed in 13 independent experiments.

