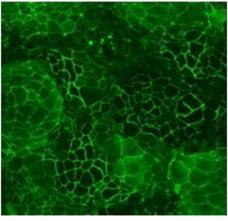




A Novel, Mucus Secreting Ready-to-Use Cell-Based Assay for In Vitro Intestinal Absorption Evaluation

FEATURES AND BENEFITS

- Mucus-secreting CacoGoblet represents a more predictive model for compounds with passive diffusion transport pathway.
- Differentiated co-cultured Caco-2 and human goblet mucus secreting cells (21 day system) plated on HTS Transwell-24 or 96 permeable supports.
- Integrated Transwells enable easy handling and provide a userfriendly system
- Proprietary conditioning medium allows for up to 9 days of transportation/storage at room temperature.
- Adaptable to automation.
- Cost effective for any size laboratory.



CacoGoblet Barrier (21 days)

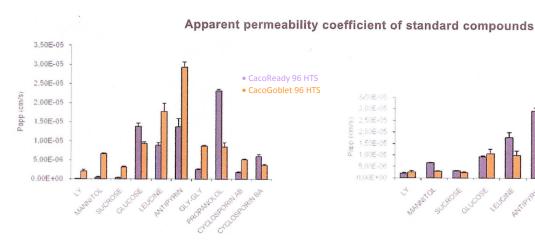
TECHNICAL DESCRIPTION

The CacoGoblet kit is a mucus-secreting ready-to-use assay consisting of 24 and/or 96-well permeable supports seeded with differentiated polarized Caco-2 and human goblet cells on polycarbonate microporous filters. CacoGoblet allows *invitro* intestinal absorption evaluation of drug targets in a barrier physiologically closer to the intestinal epithelium than Caco-2 cells alone. CacoGoblet provides flexibility for early stage drug discovery and development, since plates can be used up to 5 days after ideal cell barrier differentiation at day 21.

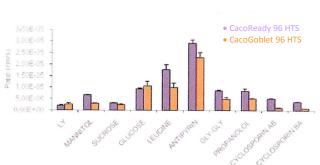
The intended use of this ready-to-use cell-based assay kit is for in-vitro evaluation of oral absorption efficiency, oral bioavailability and oral toxicity.

CAPABILITIES

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





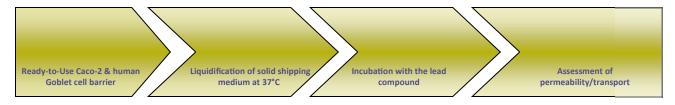


Functionality comparison of CacoGoblet 96 HTS vs. CacoGoblet 24HTS barrier, evaluated by permeability assays of several compounds at day 21

	Human Intestine	Caco-2	CacoGoblet
Composition	Absorptive (80%), Mucus-secreting (10-30%)	Absorptive (100%)	Absorptive (50%), Mucus-secreting (50%)
Presence of Mucus	Yes	No	Yes
Paracellular Permeability	More Permissive Epithelium	Very Tight Epithelium	More Permissive Epithelium
TEER (ohm.cm ²)	20-110	2000-3000	80-120

Comparison of permeability parameters amoung human intestine, caco-2 and CacoGoblet cell. CacoGoblet system leads to a more permeability epithelium which is more similar to physiological conditions.

FOUR SIMPLE STEPS OF CacoGoblet SYSTEM



PRODUCT INFORMATION

Product Number	Product Name	Format
001-1011	CacoGoblet Kit (Caco-2 & Goblet cells similar to human intestinal epithelium)	24-well plate
001-1012	CacoGoblet Kit (Caco-2 & Goblet cells similar to human intestinal epithelium)	96-well plate

^{*}CacoGoblet™ is registered trade mark of ReadyCell.

Fax: