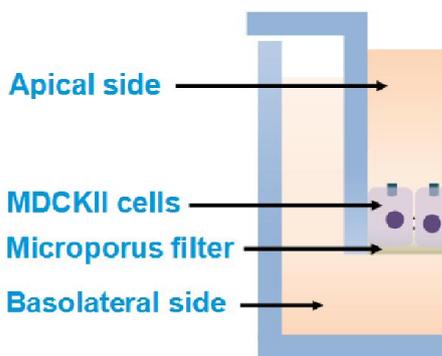




### ReadyCell introduces Preadyctive - MRP2

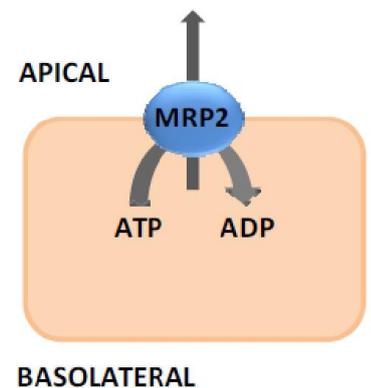
Preadyctive - MRP2 kits contain 24-insert integrated plates with differentiated MDCKII cells expressing MRP2, as well as the parental cell line. This system is suitable for performing both inhibition and substrate assessments. MDCKII-MRP2 (ABCC2 gene) is often used to model the net transport events of important fluid compartment barriers in the organism that express MRP2 at a high level; mainly intestinal epithelium, liver and kidney.

Preadyctive - MRP2 Kit, is a ready-to-use tool that will allow researchers to perform MRP2 interaction studies on monolayer's without bothering about cell-line licensing and culturing.



### Preadyctive - MRP2 Applications

- MRP2 substrates assessments (direct transport studies)
- MRP2 inhibition assessment (drug-drug interactions)
- Models the net transport events of barriers like the human intestinal epithelium, liver and kidney

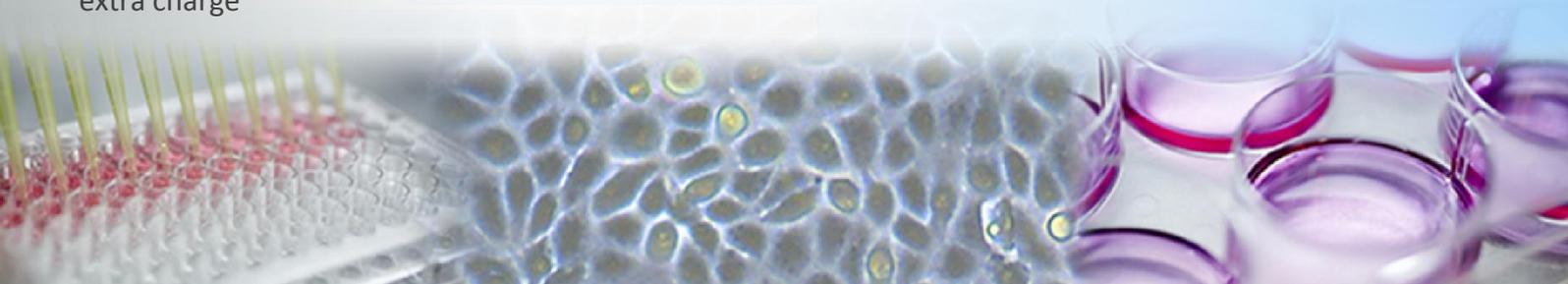


### Preadyctive - MRP2 Features

- Differentiated MDCKII-MRP2 barrier (13 day system)
- Flexibility: The Kit can be used up to 7 days after reception
- 24 insert-integrated plate format
- Up to 4 days of transportation and storage at room temperature in proprietary shipping medium
- Sample Assay Protocol and Plate Layouts
- Available under a Limited Single-use License without extra charge

### Preadyctive - MRP2 Benefits

- Available on demand
- Ready-to-use
- User-friendly and easy-handling system
- Adaptable to automation
- Transporter experiments without in house cell propagation
- Transporter experiments without in house cell line development, or acquisition





### 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



#### RECEIVE

#### LIQUIFY

#### APPLY

#### ASSAY

Ready-to-use cell barrier

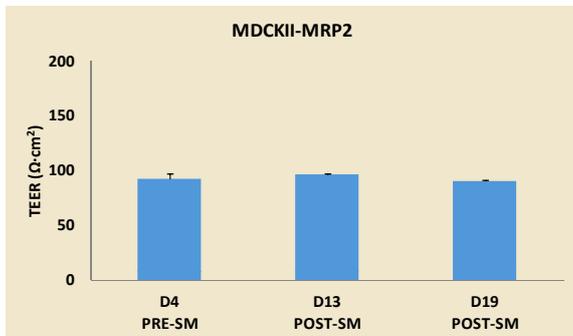
Liquefying of solid shipping medium at 37°C

Incubation with test compound

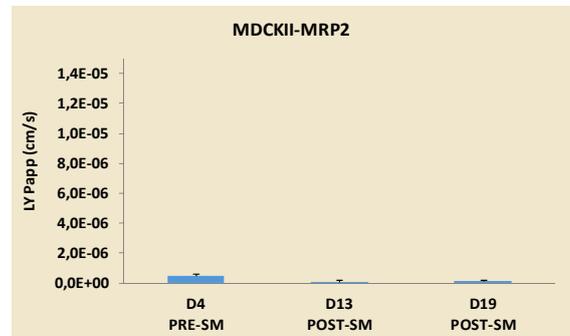
Assessment of permeability /transport end point

### Experimental Data

- Stability of **Predyctive - MRP2** Barrier, Quality Controls before and after Shipment

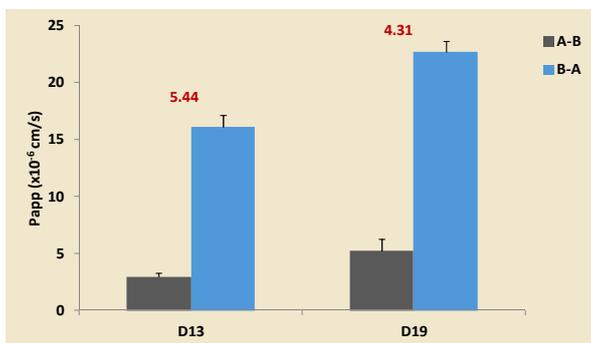


TEER was measured before shipping medium addition (D4). Immobilization was maintained for 4 days at room temperature. The shipping medium was then removed and TEER was measured after 5 (D13) and 11 (D19) standard culture conditions.



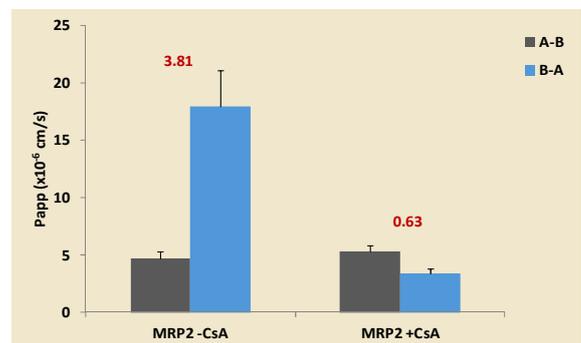
LY was measured before shipping medium addition (D4). Immobilization was maintained for 4 days at room temperature. The shipping medium was then removed and LY was measured after 5 (D13) and 11 (D19) standard culture conditions.

- Permeability values and Efflux Ratio: **Vinblastine – MRP2 substrate**



MRP2-mediated Vinblastine transport was determined using the Predyctive™-MRP2 kit at days D13 and D19 of culture. During substrate incubation, was also included Probenecid (MRP2 expression stimulator) and Elacridar (Pg-p inhibitor).

- Permeability values and Efflux Ratio: **Cyclosporine A MRP2 inhibitor**



Cyclosporine A (CsA) was used as MRP2 inhibitor in order to blockage MRP2 transport activity.