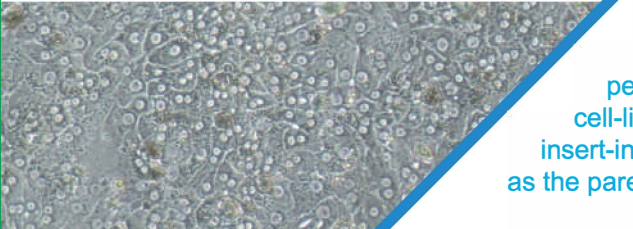


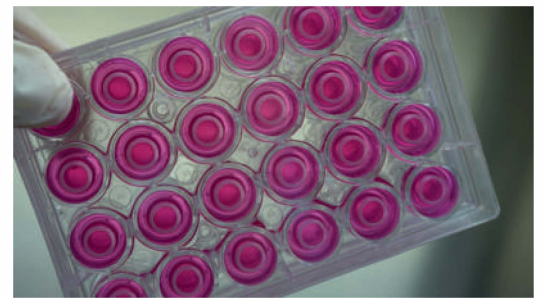
A ready-to-use tool for MDCKII-MDR1 monolayer assays



PreadyPort-MDR1 is a revolutionary kit in providing a ready-to-use tool for MDCKII-MDR1 monolayer assays. The kit allows researchers to perform MDR1 interaction studies on monolayers without worrying about cell-line licensing and culturing. PreadyPort-MDR1 kits contain 24 or 96 insert-integrated plates with differentiated MDCKII cells expressing MDR1, as well as the parental cell line.

Applications of PreadyPort-MDR1

- MDR1 substrate assessment for direct transport studies
- MDR1 inhibitor assessment for drug-drug interaction studies
- Models the net transport events of physiological barriers such as the human blood-brain-barrier, the gastrointestinal tract and placenta; and of excretory cells (renal and hepatic cells)



We ensure the preservation of the barrier's properties during transport thanks to our patented shipping medium

Four simple steps to use PreadyPort-MDR1



#1
Receive

Ready-to-use
Cell Barrier



#2
Liquefy

Liquefying of Solid
Shipping Medium



#3
Apply

Incubation with
Test Compound



#4
Assay

Assesment of
Permeability/Transport
End Point

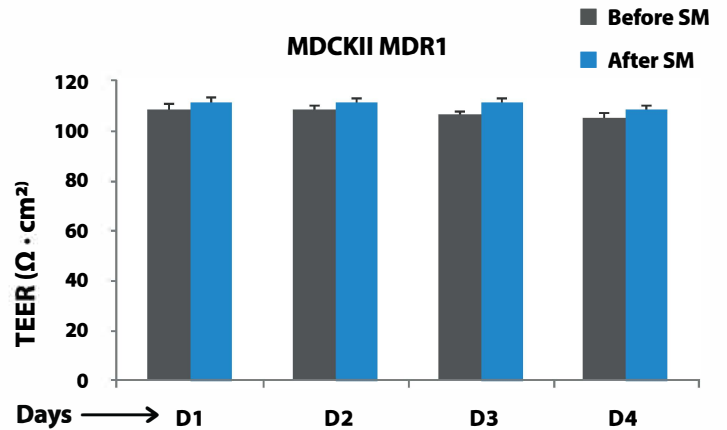
Benefits of PreadyPort-BCRP

- Available on demand
- Ready-to-use
- User friendly and easy-handling system
- Flexibility thanks to a window of 5 days for transport measurements
- Adaptable to automation
- Transporter experiments without in-house cell line development or acquisition and cell propagation

EXPERIMENTAL DATA

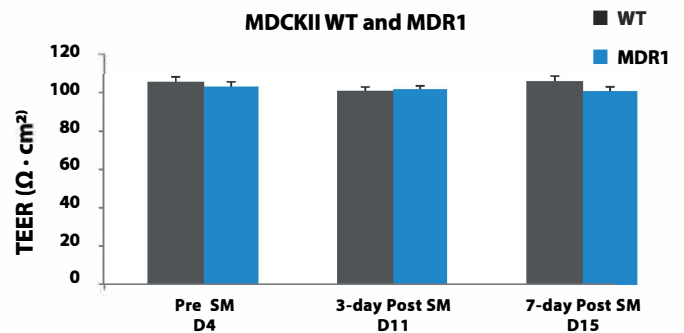
Stability of PreadyPort-MDR1 barrier properties under shipping conditions

The 11-day MDCK-MDR1 monolayers were maintained in shipping medium for 4 days, then their barrier status was evaluated by TEER measurement. PreadyPort-MDR1 can be stored and transported at room temperature up to 4 days without loss of its barrier functions.



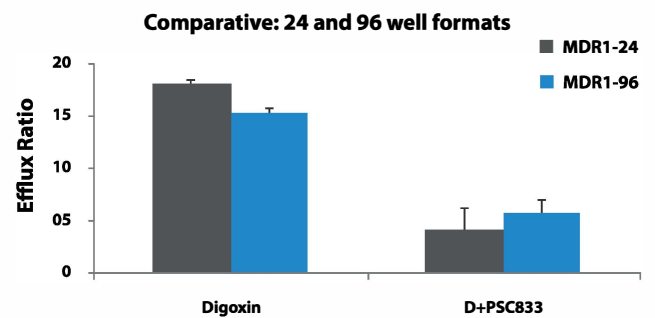
Stability of PreadyPort-MDR1 barrier properties after shipment

Immobilization was maintained for 4 days at room temperature. The shipping medium was then removed and TEER was measured after 3 and 7 days in standard culture conditions.



Functional Stability of PreadyPort-MDR1 in 24 & 96-well plates format

MDR1-mediated digoxin transport was determined from three independent experiments at D12 of culture in both, 24 and 96-insert-integrated plates formats. Transport of digoxin was specifically inhibited PSC833 P-gp inhibitor.



Inhibition curve of P-gp using PreadyPort-MDR1 96 insert-integrated plates

Complete inhibition curve of P-gp activity using digoxin and different concentrations of LY 335979 as substrate and inhibitor, respectively.

