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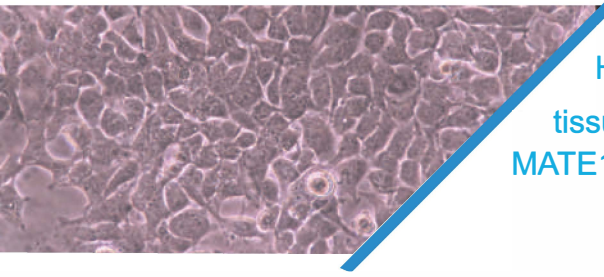
ReadyCell
EASING YOUR SCREENING

PreadyTake™ MATE1

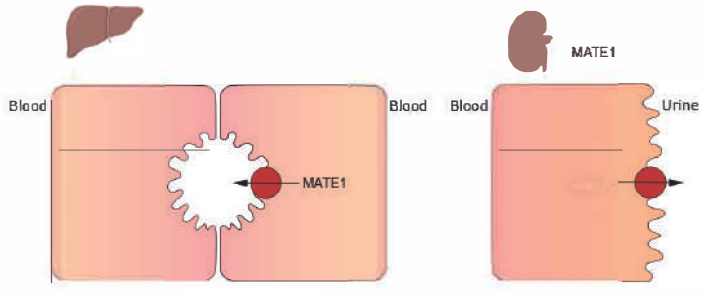
ISO 9001:2015
PreadyTake™ is a product manufactured in compliance with ISO 9001:2015

A ready-to-use system for in vitro drug transporter evaluation

READYCELL INTRODUCES PREADYTAKE-MATE1 - IN COLLABORATION WITH GENOMEMBRANE



PreadyTake-MATE1 is an in vitro model based on transfected HEK293. PreadyTake-MATE1 is ready-to-use and consists of a tissue culture 96-plate seeded with transfected cells expressing MATE1 transporter as well as parental control cells.



HEK293-MATE1 (SLC47A1 gene) is expressed mainly in the apical membrane in kidney and liver; and it plays an important role in drug disposition and excretion mediating the efflux of diverse substrates, particularly of organic cations.

PreadyTake-MATE1 Applications

- MATE1 substrates assessments
- MATE1 inhibition assessment
- Models the net active transport event of barriers such as **liver and kidney**

Four simple steps to use PreadyTake-MATE1

#1 Receive	#2 Liquefy	#3 Apply	#4 Assay
Ready-to-use Cell Barrier	Liquefying of Solid Shipping Medium	Incubation with Test Compound	Assesment of Permeability/Transport End Point

Benefits of PreadyTake-MATE1

- Available on demand
- Ready-to-use without in-house cell line development or acquisition and cell propagation
- Transportation and storage at room temperature in proprietary shipping medium
- User friendly and easy-handling system
- Adaptable to automation
- High reproducibility

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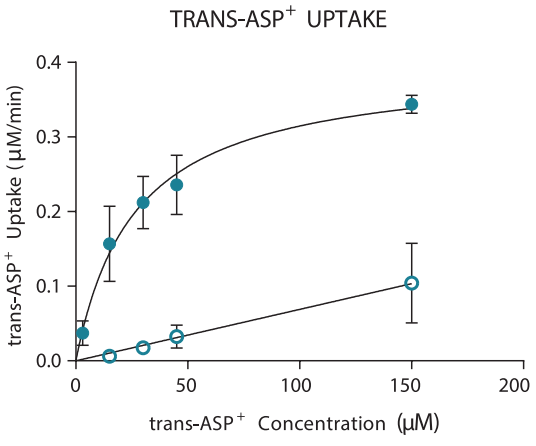
PreadyTake™
MATE1

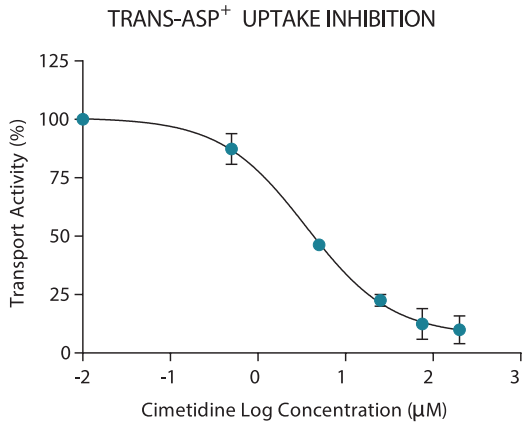
EXPERIMENTAL DATA

Functional Stability of PreadyTake-MATE1

Quality Controls

Functional stability of PreadyTake-MATE1 kit is evaluated through a rapid assay using fluorescent probe substrate trans-ASP+. Uptake assays were performed on MATE1 transporter (closed circle) and empty vector (open circle), they were conducted after 3-days solid shipping medium exposure.

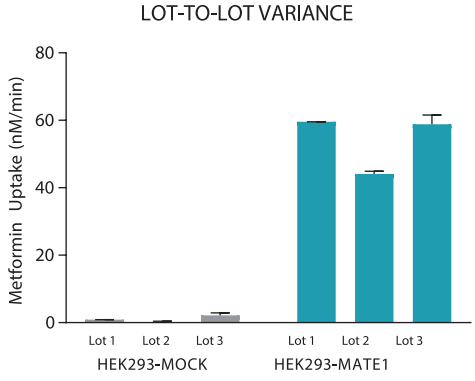




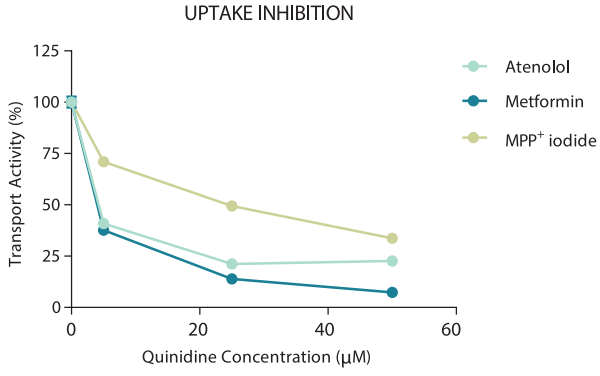
Results prove that the kit preserves the transporter functionality during transportation thanks to our patented shipping medium.

High PreadyTake-MATE1 reproducibility among batches

MATE1-mediated Metformin transport was determined using PreadyTake-MATE1 kit at day 7 of culture.



Uptake of reference compound Metformin 10µM tested on PreadyTake-MATE1 kit among different batches shows its reproducibility.



Quinidine was used as MATE1 inhibitor to successfully block MATE1 mediated transport activity of 10µM Atenolol, 10µM Cimetidine, 10µM Metformin and 10µM MPP+iodide .

MATE1 – Regulatory Requirements

Recommendations for studying MATE1 inhibition and substrate identification are outlined by the 2020 FDA Guideline and recommended for consideration according to 2012 EMA Guideline.