

PreadyTake MATE1 - Drug-Transporter Interactions Experimental Data

Uptake kinetics of metformin, a reference compound of the MATE1 transporter. Assays were performed after exposing **PreadyTake MATE1** to the shipping medium during a 4-day period and a subsequent 72-hr recovery in fresh culture medium. *These data are the result of 3 independent experiments.*

● HEK-MOCK ● HEK-MATE1 ● NET UPTAKE

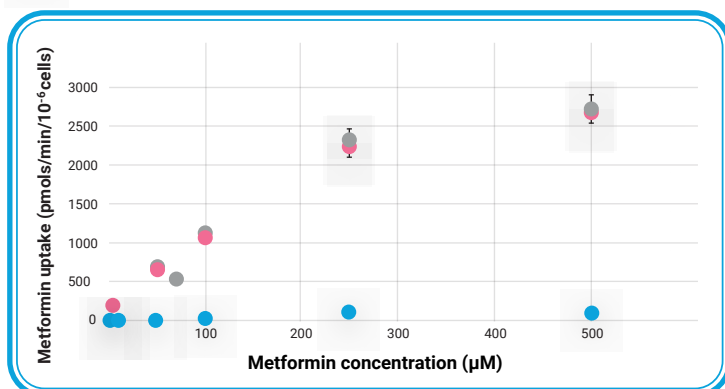


Figure 1. MATE1-mediated Metformin internalization

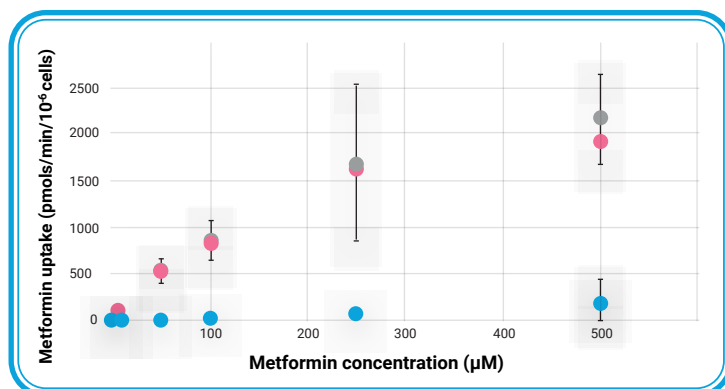


Figure 2. Metformin uptake (batch-to-batch variation).

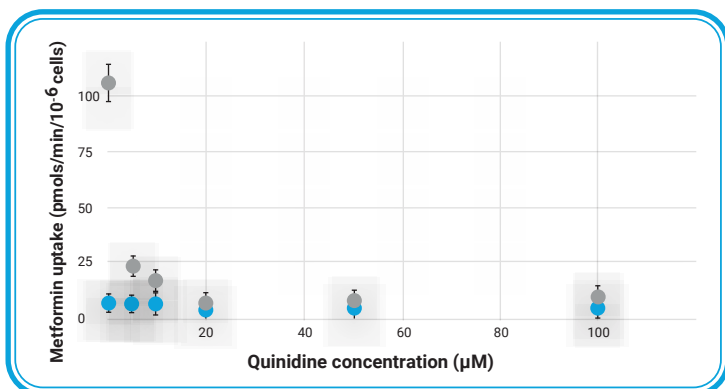


Figure 3. MATE1 inhibition by quinidine.

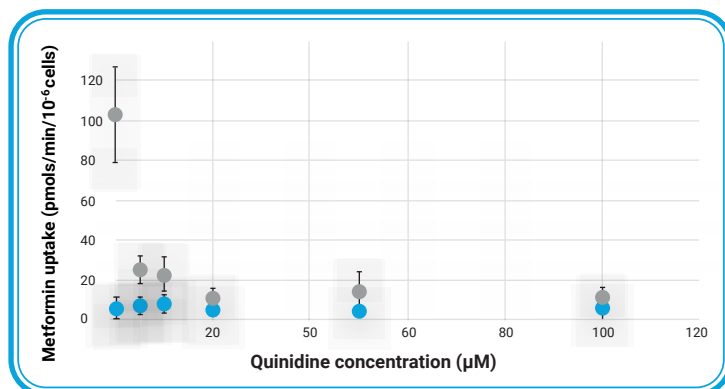


Figure 4. Quinidine inhibition (batch-to-batch variation).

Quality Controls

A fluorescence-based approach is used to rapidly evaluate **PreadyTake MATE1** functionality. Assays were performed after **PreadyTake MATE1** was exposed for 4 days to the shipping medium and a subsequent 72-hr culture in fresh medium.

● HEK-MOCK ● HEK-MATE1 ● NET UPTAKE

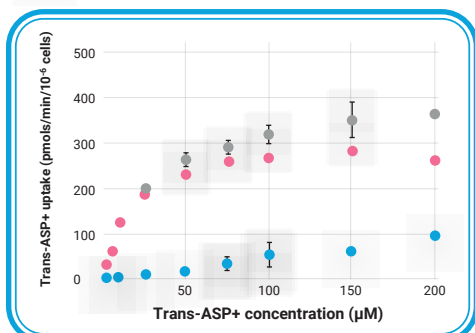


Figure 5. MATE1-mediated trans-ASP+ internalization. *These data are the result of 3 independent experiments.*

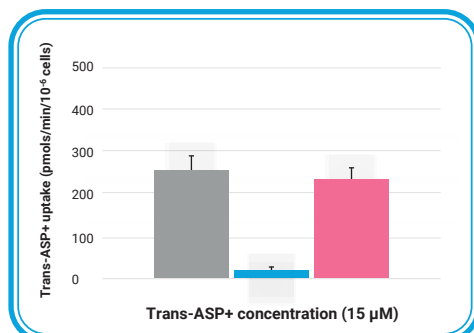


Figure 6. Trans-ASP+ uptake (batch-to-batch variation). *These data are the result of 3 independent experiments.*

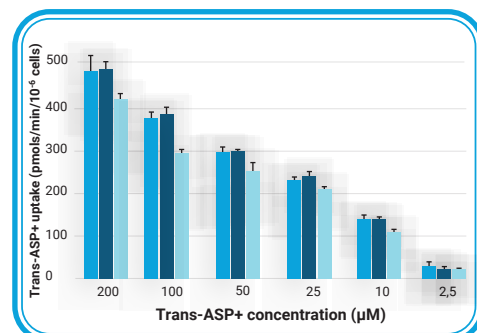


Figure 7. Effect of DMSO on MATE1 functionality ● 0,5% DMSO ● 1% DMSO ● 2% DMSO. *These data refer to a single experiment in triplicates.*

MATE1 regulatory requirements are detailed in the 2020 FDA and 2012 EMA Drug Interaction Guidelines.