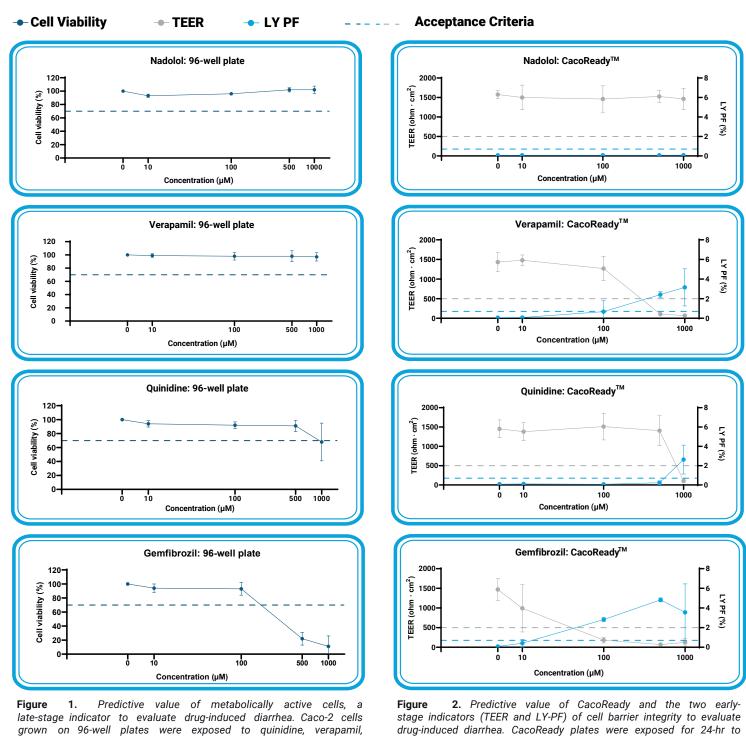
CacoReady for assessing Drug-induced Diarrhea Experimental Data

The traditional method for testing drug-induced diarrhea involves measuring cell viability in undifferentiated human adenocarcinoma-derived (Caco-2) cells grown on 96-well plates. ReadyCell compared the sensitivity and predictive value of this approach with those of Transepithelial Electrical Resistance (TEER) and Lucifer Yellow Paracellular Flux (LY PF), which are two early-stage indicators of barrier disruption in 21-day differentiated Caco-2 cells grown on a transwell system (CacoReady).



CacoReady and its two early-stage indicators of cell barrier integrity (**TEER and LY PF**) is more sensitive at predicting drug-induced diarrhea than the conventional 96-well plate.

highly toxic compounds

mean of 3 independent

quinidine, verapamil, and gemfibrozil, two moderately and highly

counterpart. Cell barrier disruption was assessed by measuring TEER and LY PF (reference values: 500 ohms x cm2 and 0.7 %,

respectively). Data are the mean of 3 independent experiments.

and

to Nadolol, their non-toxic

toxic compounds respectively,

cell viability

experiments.

and gemfibrozil, two moderately and

assay.

respectively, and to Nadolol, their non-toxic counterpart. After 24-

Data are

incubation, viable cells were quantified by the Alamar Blue

the