



Low drug adsorption 1

Drug adsorption to the culture substrate

• Data provided by Dr. Arakawa, Kanazawa University

Drug	log P	clinical C _{max} (μM)	Residual rate after 24 hours (%Theoretical value)			
			Drug concentration 100nM			
			PS-plate	FEP-plate	PDMS-plate	InnoCell™ plate
Sunitinib	3.24	0.18	95.8±1.9	64.9±1.8	29.0±2.0	97.0±3.5
Aripiprazole	5.21	0.067	64.2±0.4	54.7±1.2	26.3±0.9	69.9±2.2
Alectinib	5.59	1.4	72.9±1.8	53.7±2.8	45.1±0.8	70.3±2.9
Sorafenib	4.12	17	73.0±1.7	56.4±2.5	59.2±0.4	68.0±3.4
Gefitinib	4.02	0.86	82.9±3.4	69.8±4.3	39.6±2.3	94.0±4.8
Pazopanib	3.59	132	86.7±2.1	59.5±1.8	82.1±2.1	87.8±0.6
Ciprofloxacin	0.28	6.73	62.2±5.4	67.7±12.1	59.6±6.7	69.4±13.0

Conditions

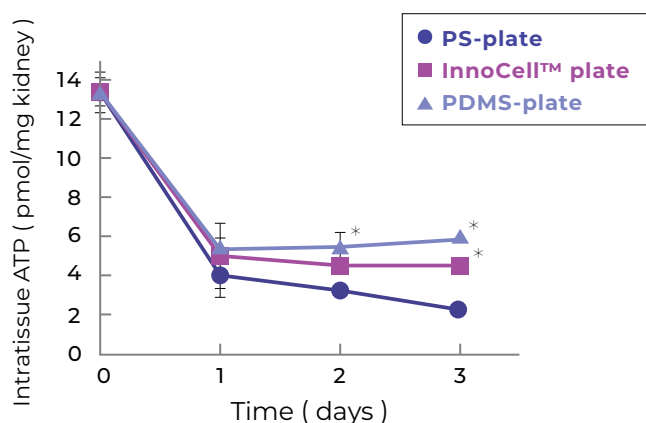
[Plate type] InnoCell™ plate FP series (flat bottom)
 Non-treated (N type)
 [Measurement]
 Liquid chromatograph-mass spectrometer (LC-MS / MS)

Drug adsorption to InnoCell™ plate is low. It can be utilized in toxicity studies, as well as drug efficacy / pharmacology studies during the drug discovery phase.

Viability and drug toxicity evaluation in rat kidney slices

• Reference: Evaluation of Drug-Induced Kidney Injury by Primary Culture of Rat Kidney Tissue Slices Using Oxygen-Permeable Polyolefin Plate with Low Drug Adsorption. *Biol. Pharm. Bull.*, 49: 122-129, (2026).

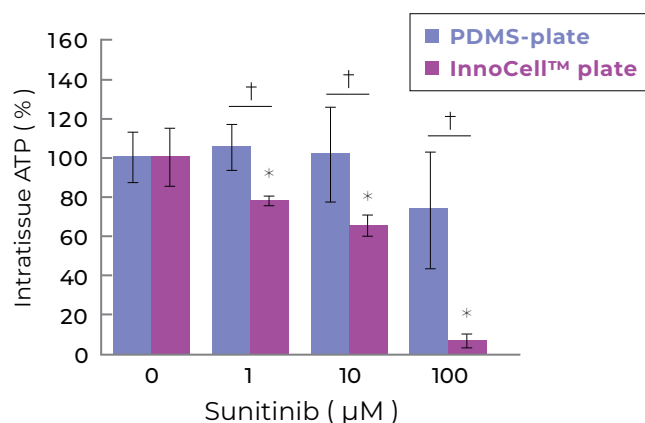
ATP content



Conditions

[Slice] Primary rat kidney tissue
 [Plate type] InnoCell™ plate FP series (flat bottom)
 Non-treated (N type)

Effects of sunitinib on viability (Exposure Day 2)



InnoCell™ plate enables detection of concentration-dependent sunitinib toxicity, supporting drug-induced kidney injury evaluation. InnoCell™ plate has lower drug adsorption than PDMS-plate, which may allow more accurate compound assessment.

[Abbreviation] · PS: Polystyrene · FEP: Fluorinated Ethylene Propylene copolymer · PDMS: Poly (dimethylsiloxane) · COC: Cyclic Olefin Copolymer



Low drug adsorption 2

Drug adsorption to the culture substrate

• Reference : Accurate Evaluation of Hepatocyte Metabolisms on a Noble Oxygen-Permeable Material With Low Sorption Characteristics. *Front. Toxicol.*, 4: 810478, (2022).

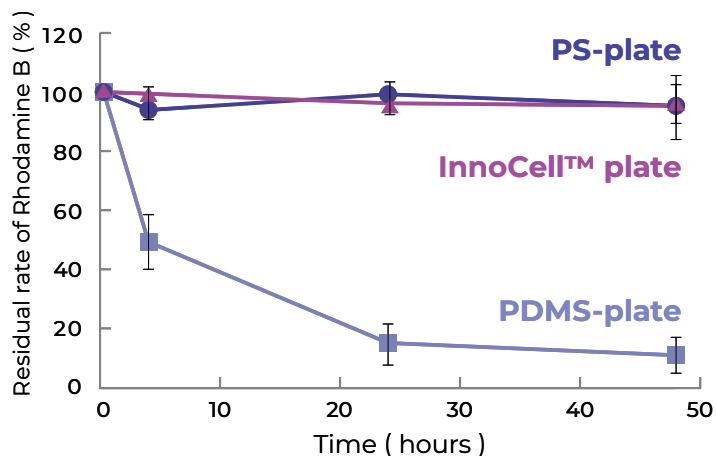
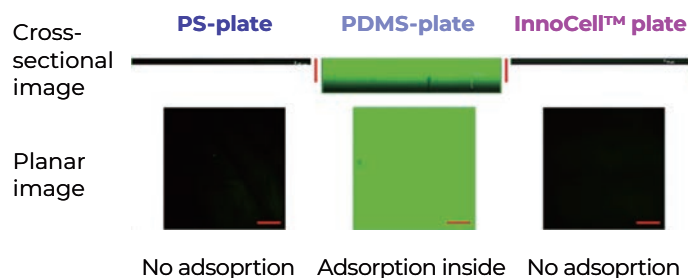


Image after 48 hours (Confocal microscope, 200μm from the bottom)

Rhodamine B



InnoCell™ plate is designed for and verified to have low drug adsorption into the culture substrate.