CHEMPARTNER
DEDICATED TO LIFESCIENCE

DMPK *IN VITRO* ADMET

In-vitro ADME assays are critical for gaining insight into metabolism and potential drug interactions. Moving quickly through drug discovery and development saves you time and money. ChemPartner has industry-leading turnaround times for data to help our clients make risk-based decisions on the drug-like properties of hits and lead molecules quickly.

CAPABILITIES

ABSORPTION
- Caco-2
- MDCK-MDR1

DISTRIBUTION
- Protein binding
- Kbb
- RBC

CLEARANCE
- Clint in different matrix
- Phenotyping

METABOLITE ID
- GSH trapping
- Metabolite ID

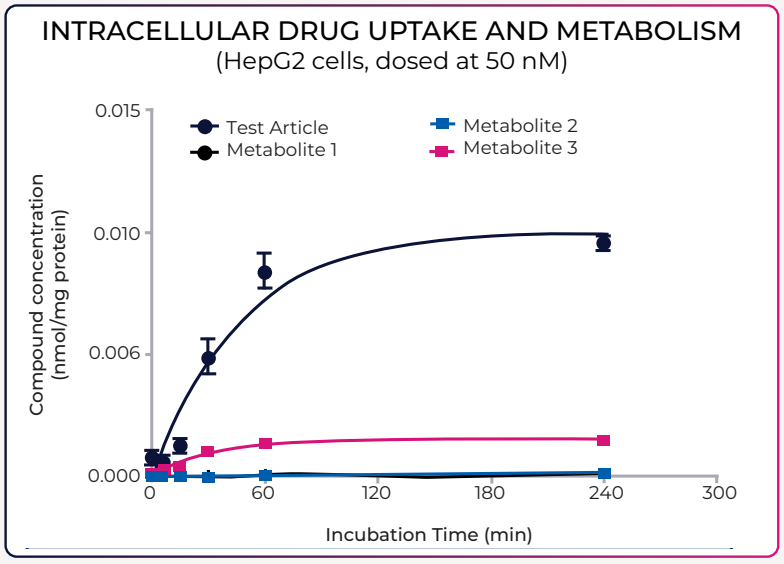
DRUG-DRUG INTERACTION
- IC50
- IC50 shift
- Ki
- Induction

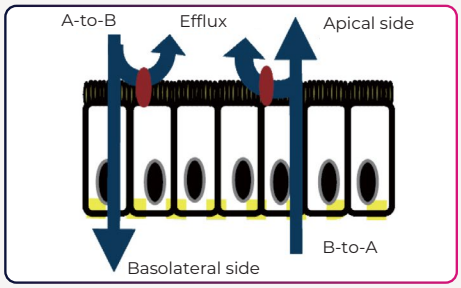
IN VITRO GENOTOXICITY
- Mini-Ames

PHYSICAL-CHEMICAL PROPERTY
- Solubility
- LogD

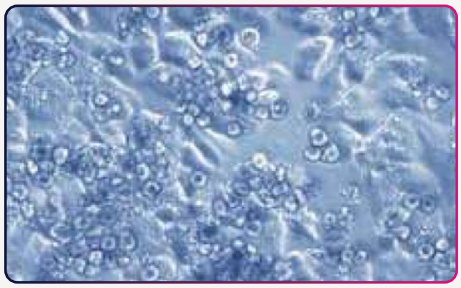
CUSTOMIZED ASSAYS

CUSTOMIZED ASSAY





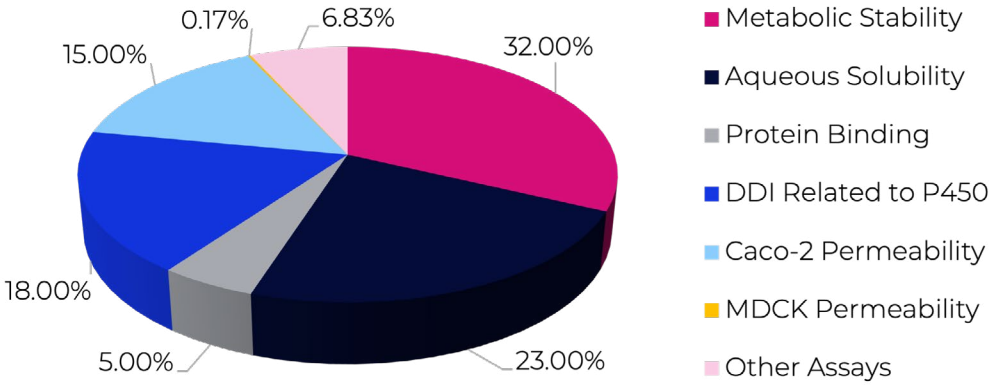
IN VITRO
PERMEATION MODEL



IN VITRO
CYP INDUCTION MODEL

75,000+

GLOBAL CLIENT COMPOUNDS SCREENED SINCE 2008

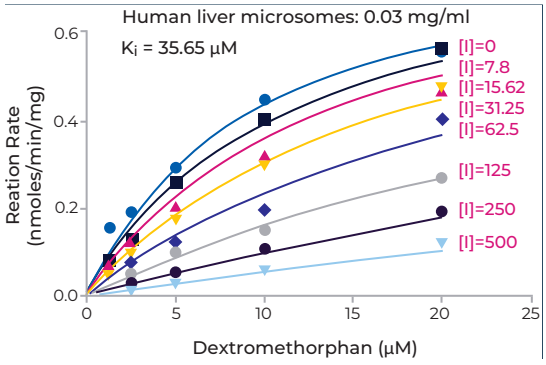


IN VITRO ADMET STUDIES IN DISCOVERY AND IND ENABLING

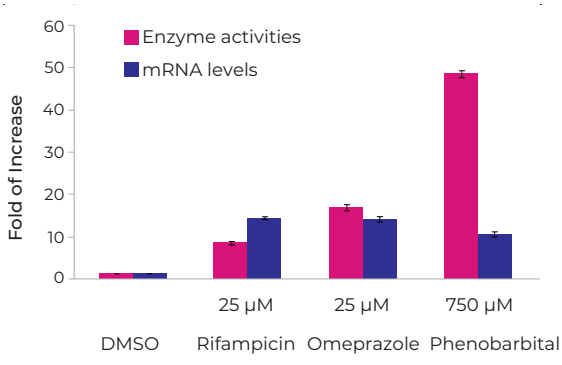
PROJECTS/STUDIES	ONCOLOGY 1	ONCOLOGY 2	CNS 1	CNS 2	CNS 3	CNS 4	IND-ENABLING (CASE)
Solubility	258	75	55	46	27	11	
Liver Microsomal Stability	120	13	159	120	22	10	3
CYP Inhibition	120	195	94	15	14	7	3
Plasma Stability			59				
Hepatocyte or S9 Stability				20			
Protein Binding	40	13	108		19	13	3
Caco-2	7	16					5
MDCK-MDR1			96	70	38	13	
CYP TD1			11				
CYP Induction							3
Mini-Ames		7					

ASSESSMENT OF ENZYME-BASED DRUG-DRUG INTERACTION

Ki DETERMINATION FOR QUINIDINE ON CYP2D
(Using GraphPad Prism 5)



CYP INDUCTION DETERMINED
USNIG HUMAN HEPATOCYTES (3 Donors)



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