

Product Characterization Sheet

PCHIMX6092

PCHIMX™ MetMax® Pooled Human Intestinal Mucosal Epithelium;
Mixed Gender, Catalog Number 82285



Classification

Plateability	Suspension
Number of days plateable	NA
Confluency	NA
P450 Inducibility	NA
Number of donors	5

Characterization: Enzyme activities were determined per thawing and use procedures accompanying the product. The final protein concentration used in the incubation was 0.5 mg protein/ mL. The incubation time was 30 minutes.

Drug Metabolism Activity

Metabolic Pathway	Substrate	Substrate Conc. (µM)	Marker Metabolite	Activity (pmol/min/mg protein)	
				Average	Standard Deviation
CYP1A1	7-Ethoxyresozufin	20	Resozufin	0.77	0.04
CYP1A2	Phenacetin	100	Acetaminophen	BQL	BQL
CYP2A6	Coumarin	50	7-HC, 7-HC-Sulfate, 7-HC-Glucuronide	BQL	BQL
CYP2B6	Bupropion	500	Hydroxybupropion	0.14	0.02
CYP2C8	Paclitaxel (Taxol)	20	6α-hydroxypaclitaxel	0.07	0.00
CYP2C9	Diclofenac	25	4-OH Diclofenac	28.48	2.58
CYP2C19	S-Mephenytoin	250	4-OH S-Mephenytoin	14.68	0.24
CYP2D6	Dextromethorphan	15	Dextrophan	1.23	0.15
CYP2E1	Chlorzoxazone	250	6-OH Chlorzoxazone	12.24	0.19
CYP3A4-1	Midazolam	20	1-Hydroxymidazolam	125.33	4.06
CYP3A4-2	Testosterone	200	6β-hydroxytestosterone	63.00	4.67
ECOD	7-Ethoxycoumarin	100	7-HC, 7-HC-Sulfate, 7-HC-Glucuronide	2.30	0.52
UGT	7-Hydroxycoumarin	100	7-Hydroxycoumarin Glucuronide	193.22	9.96
SULT	7-Hydroxycoumarin	100	7-Hydroxycoumarin Sulfate	33.37	1.44
GST	Acetaminophen	10 mM	Acetaminophen Glutathione	13.38	1.01
UGT	Acetaminophen	10 mM	Acetaminophen Glucuronide	7.50	1.32
SULT	Acetaminophen	10 mM	Acetaminophen Sulfate	109.22	4.82
FMO	Benzydamine HCl	250	Benzydamine-N-Oxide	13.23	0.37
MAO	Kynuramine HBr	160	4-hydroxyquinoline	634.44	42.47
AO	Cabazeran	20	4-Hydroxycabazeran	0.09	0.00
NAT1	4-Aminobenzoic Acid	200	N-Acetyl-p-aminobenzoic acid	462.22	20.09
NAT2	Sulfamethazine	100	N-Acetyl-sulfamethazine	86.33	2.65
2J2	Astemizole	50	O-Demethyl Astemizole	13.24	2.56
CES2	Irinotecan	50	SN38	10.44	0.25

*BQL – below quantitative level

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Donor Demographics

	HE3064J	CHIM6003J	CHIM6007J	CHIM6010J	CHIM6011J
Gender	Male	Male	Male	Male	Female
Age	58 years	20 years	20 years	59 years	36 years
Race	Hispanic	Caucasian	Caucasian	Caucasian	Asian
Cause of death	Anoxia, CVA	CVA, Anoxia, Non-MVA	Suicide	Head Trauma, Non-MVA	CVA, ICH
BMI	30.27	30.62	26.33	37.88	35.00
Smoking	Yes	No	Yes	No	No
Alcohol	No	No	Yes	No	No
Substance abuse	No	Yes	No	No	No
Medical history			Allergies	HTN	HTN
Infectious diseases	HBV-, HCV-, HIV-, CMV+	HBV-, HCV-, HIV-, CMV-	HBV-, HCV-, HIV-, CMV-	HBV-, HCV-, HIV-, CMV+	HBV-, HCV-, HIV-, CMV+

IVAL cell culture media and tissue culture plates used in this evaluation:

- Recovery of thawed enterocytes - Cat. No. 81056 - CERM™ Cryopreserved Enterocyte Recovery Media, 50 mL tube
- Suspension and incubation of enterocytes - Cat. No. 81039 - HQM™ Hepatocyte and Enterocyte Incubation Media, 50 mL tube

To inquire about our products and services or for technical questions please contact:

- In Vitro ADMET Laboratories by phone at +1 (866) 458-1094 or +1 (410) 869-9037 or email at info@invitroadmet.com