

## Characterization table of available human upcyte® Hepatocytes

Lot No.	Recommended use	Ethnic group	Gender	Age (Years)	CYP 1A2 Phenacetin	CYP2B6 Bupropion	CYP2C9 Tolbutamide	CYP3A4 Testosterone	CYP2D6 OH-Propafenone	CYP 1A2 Phenacetin	CYP2B6 Bupropion	CYP2C9 Tolbutamide	CYP3A4 Testosterone	UGT	SULT	GST*	Serologic analysis	Viability	Cause of death	Alcohol	Smoker	BMI	Drugs	Medication	Possible bar
<a href="#">10-03</a>	CYP-Ind, CDC, CYP-Inh Metabolism	caucasian	f	48	3.3 ± 0.4	40.3 ± 6.5	91.8 ± 5.5	21.4 ± 9.6	N/D	7,3	5,1	2,8	8,2	224	3	N/D	negative	83%	n/a	n/a	n/a	n/a	n/a	n/a	2100 vials
<a href="#">151-03</a>	CYP-Ind, CDC, CYP-Inh Metabolism	caucasian	f	43	0.7 ± 1.4	71.1 ± 11.3	29.1 ± 21.4	77.8 ± 22.6	N/D	>5	24	1,4	2,3	117	4	25	negative	75%	n/a	yes	yes	22,7	no	no	2800 vials
<a href="#">422A-03</a>	CYP-Ind, CDC, CYP-Inh Metabolism	hispanic	m	0	2.3 ± 0.1	33.6 ± 11.4	4.8 ± 3.1	42.9 ± 6.3	N/D	9,9	3,5	5,6	3,1	N/D	N/D	N/D	negative	96%	anoxia	no	no	15	no	no	2500 vials
<a href="#">653-03</a>	CYP-Ind, CDC, CYP-Inh Metabolism, G	caucasian	f	9	17.1 ± 0.5	68.4 ± 18.4	16.2 ± 0.9	178.3 ± 17.0	N/D	>5	1,8	0,6	6,5	179	15	15	negative	82%	anoxia	no	no	17,5	no	no	5450 vials
<a href="#">653-03 2D6</a>	CYP2D6 recombinantly expressed in Donor 653-03								1627.5 ± 22.4																
<a href="#">740</a>	G	asian	f	6	0	0,2	1,8	7,1		>5	N/D	N/D	1,8	145	11	88	CMV+	n/a	head trauma	n/a	n/a	n/a	n/a	n/a	>10.000 vials
					<b>basal activity [pmol/min/mg]</b>				<b>fold induction</b>				<b>pmol/min/mg</b>												

\*in nmol/min/mg

For endpoint UDC = uptake-dependent cytotoxicity

CDC = CYP3A4-dependent cytotoxicity

G = Genotoxicity

CYP3A4-Ind = CYP 3A4 induction studies

CYP-Ind = CYP 1A2, 2B6, 2C9 and 3A4 induction studies

UGT = UDP-glucuronosyltransferase (substrate = hydroxycoumarin)

SULT = Sulfotransferase (substrate = hydroxycoumarin)

GST = Glutathione S-Transferase (substrate = CDNB (1-chloro 2,4-dinitrobenzene) in \*nmol/min/mg

N/D = no data

n/a = not available

For each Lot a Certificate of Analysis (CoA) will be delivered with each order.