

BD Gentest™ Metabolism-Qualified Human CryoHepatocytes - Donors Available as of January 4, 2012

Donor availability may change and differ from this chart. Call your local BD Representative for the latest information.

BD Lot No.	Donor No.	Donor Summary (Gender/Age/Race)	Initial % Viability with Percoll™	Initial Recovery with Percoll (cells x 10 ⁶)	% Viability Time Course with Percoll			Initial % Viability without Percoll (One-Step Kit)	Initial Recovery without Percoll (cells x 10 ⁶)	Metabolism Enzymes, Substrates, Activities								General UGT
					1 hour	2 hour	4 hour			CYP1A2	CYP2B6	CYP2C8	CYP2C9	CYP2C19	CYP2D6	CYP3A4	UGT2B7	
										Phenacetin	Bupropion	Amodiaquine	Diclofenac	S-Mephenytoin	Bufuralol	Testosterone	AZT	
Catalog No. 454503 Metabolism-Qualified Human CryoHepatocytes 2-5 million cells/vial (for suspension assays)																		
78	HH153	Male/21 years/C	91	4.9	84	84	81	65	6.1	8.5	5.6	270	220	13	13	480	150	130
95	HH177	Male/13 years/H	83	2.7	58	62	60	63	8.7	3.7	9.6	16	11	0.09	14	41	67	130
116	HH197	Male/48 years/C	77	2.6	72	52	60	52	6.5	0	10	160	280	2.5	10	40	160	180
122	HH203	Female/46 years/C	85	4.4	ND	ND	ND	69	4.4	15	0.26	160	230	69	14	150	190	220
123	HH204	Male/21 years/H	84	4.4	ND	ND	ND	58	4.7	ND	32	140	100	1.6	23	62	160	130
128	HH210	Female/23 years/AA	79	3	76	72	58	77	5.8	92	3	340	330	110	24	670	210	150
149	HH231	Female/29 years/C	87	2.3	75	70	64	75	5.0	0.84	ND	95	93	3.3	20	40	170	760
4537969002	HH217	Female/65 years/C	90	3.0	73	79	73	78	6.1	10	13	91	290	10	18	250	44	78
4542339002	HH258	Female/52 years/C	90	2.4	68	66	64	72	9.8	16	ND	240	470	ND	32	320	83	120
Catalog No. 454504 Metabolism-Qualified Human CryoHepatocytes >5 million cells/vial (for suspension assays)																		
65	HH140	Male/41 years/C	87	5.3	84	83	81	73	7	10	23	210	170	3	ND	380	160	190
157	HH239	Female/73 years/C	86	5.5	81	80	72	58	6.5	3.6	32	36	42	0.25	7.7	145	66	580
**197	HF289	Female/65 years/C	83	5.8	74	78	65	67	7.6	16	0	360	200	4	30	130	73	330
214	HM330	Male/2 years/C	87	8.9	75	63	56	63	10	11	15	7.5	ND	0.24	2.4	49	23	10
222	HF361	Female/9 years/C	74	6.5	67	65	53	73	14	31	3.3	140	560	38	20	130	77	250
**241	HFC397	Female/46 years/C	82	8.7	83	80	80	68	13.3	13	49	480	250	36	62	600	140	650
247	HFH403	Female/71 years/H	84	12.4	60	57	60	80	7.4	7	26	39	260	2	23	35	76	180
251	HMC407	Male/56 years/C	83	5.1	71	61	63	55	8.6	0	9	180	320	1	22	110	83	190

* Note: ND = not determined.

** Note: The lots with an asterisk next to the lot number were found to be plateable on collagen I, and have high basal activity after one day of plating. Midazolam clearance (MDZ CL) has been measured at 1 day post plating for the lots listed in the box below.

BD Lot No.	24 hour plating confluency, %	MDZ CL, ml/hr/1 X 10 ⁶ cells
124	65	0.118
157	60	0.0832
197	85	0.0874
219	75	0.0845
241	90	0.2355

Midazolam Concentration: 5 µM

P450 and UGT Enzyme Assays	
Enzyme	Substrates / Reaction
CYP1A2	Phenacetin O-deethylation
CYP2C8	Amodiaquine N-demethylation
CYP2C9	Diclofenac 4'-hydroxylation
CYP2D6	Bufuralol 1'-hydroxylation
CYP3A4	Testosterone 6β-hydroxylation
UGT2B7	AZT glucuronidation
UGT (non-specific substrate)	7-Hydroxycoumarin glucuronidation

Abbreviations	
AZT:	Azidothymidine
7-HC:	7-Hydroxycoumarin
CYP:	Cytochromes P450
UGT:	UDP-Glucuronosyltransferases

Race Key	
C:	Caucasian
AA:	African American
A:	Asian
H:	Hispanic
NA:	Native American
PI:	Pacific Islander

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