

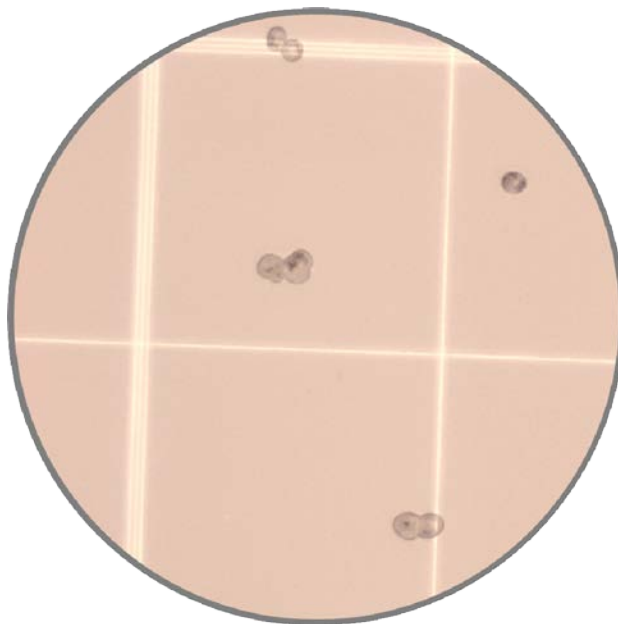
Cryo Characterization Report (CCR)

Lot Overview		
Lot Number	Qualification	Catalog Number
HUP1002	Pooled human suspension, metabolism qualified	HUCS10P

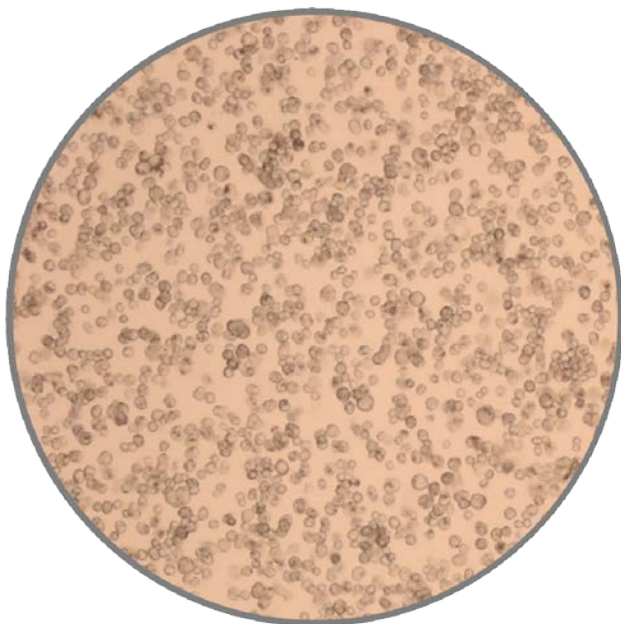
Donor Demographics									
Lot Number	Sex	Race	Age	BMI	Tobacco Use	Alcohol Use	Drug Use	HIV, HBV, HCV Serologies	Cause of Death
HUM4084A	Male	Caucasian	58	22.7	No	No	No	Negative	Anoxia
HUM4088	Male	Caucasian	52	27.0	No	Social	No	Negative	Heart Attack
HUM4087	Male	Caucasian	64	19.0	No	No	No	Negative	Anoxia
HUM4092	Male	Hispanic	21	30.5	Yes	Yes	Yes	Negative	Head Trauma
HUM4060B	Male	Caucasian	23	18.1	No	Social	No	Negative	Anoxia
HUM4024	Male	Caucasian	77	26.0	No	No	No	Negative	Heart Attack
HUM4030	Male	Caucasian	75	28.0	No	Social	No	Negative	Head Trauma
HUM4067	Male	African American	21	23.9	Yes	Social	Yes	Negative	Overdose
HUM4069F	Male	Caucasian	30	25.0	No	No	No	Negative	GSW to Head
HUM4039	Male	Caucasian	32	30.2	Yes	Yes	No	Negative	Stroke

Additional donor demographic information, including relevant medical and medication history, is available upon request

Post-thaw Viability and Cell Quality Assessment			
Thawing Medium Used	Centrifuge Conditions	% Viability (post-thaw)	Viable cell yield per vial
MCHT50P	200 x g for 10 min	83%	5.0 x 10 ⁶ viable cells



HUP1002, Post-Thaw, 10X



HUP1002, Post-Thaw, 10X

<i>Suspension Metabolism</i>			
Isoform	Substrate	Marker Metabolite	Activity pmol/min/10 ⁶ cells
CYP1A2	100 µM Phenacetin	Acetaminophen	75.7
CYP2A6	5 µM Coumarin	7-Hydroxycoumarin	278.9
CYP2B6	500 µM Bupropion	Hydroxybupropion	46.0
CYP2C8	20 µM Paclitaxel	6α-Hydroxypaclitaxel	19.4
CYP2C9	25 µM Diclofenac	4-Hydroxydiclofenac	113.7
CYP2C19	250 µM Mephenytoin	4-Hydroxymephenytoin	8.2
CYP2D6	15 µM Dextromethorphan	Dextrorphan	47.0
CYP2E1	250 µM Chlorzoxazone	Hydroxychlorzoxazone	61.0
CYP3A4	200 µM Testosterone	6β-Hydroxytestosterone	277.1
CYP3A4	8 µM Midazolam	Hydroxymidazolam	130.4
General	100 µM 7-Ethoxycoumarin	7-Hydroxycoumarin	18.7
SULT	100 µM 7-Hydroxycoumarin	7-Hydroxycoumarin Sulfate	50.4
UGT	100 µM 7-Hydroxycoumarin	7-Hydroxycoumarin Glucuronide	871.6

<i>Suspension Uptake</i>			
Test Article	Accumulation at 37°C (pmol/million cells)	Accumulation at 4°C (pmol/million cells)	Transporter Specific Accumulation (Fold)
MPP+	25.6	5.3	4.9
E3S	69.9	28.3	2.5
TCA	27.2	8.5	3.2

Media products used for characterization:

MCHT50P –Cryopreserved human hepatocyte thawing medium - pooled, 50mL

MM250 – Hepatocyte maintenance medium, 250mL

Contact customer service to place an order or to obtain additional information on any of our cryopreserved primary hepatocyte lots.

To contact TRL:

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