Cryo Characterization Report (CCR)

Lot Overview		
Lot Number	Qualification	Catalog Number
HUM4113	*Cryopreserved human hepatocytes Plateable, induction qualified*	*HUCPI*

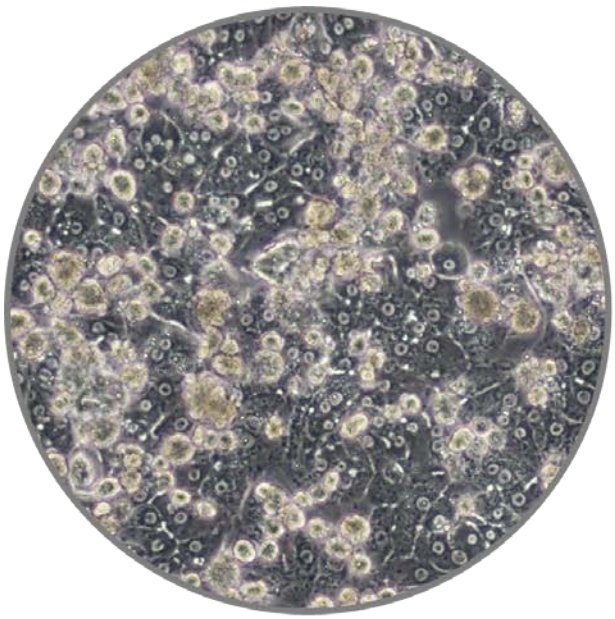
Donor Demographics								
Sex	Race	Age	BMI	Tobacco Use	Alcohol Use	Drug Use	HIV, HBV, HCV Serologies	Cause of Death
Male	*Caucasian*	*29*	*27.5*	*Yes*	*Yes*	*Yes*	*Negative*	*Anoxia*

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

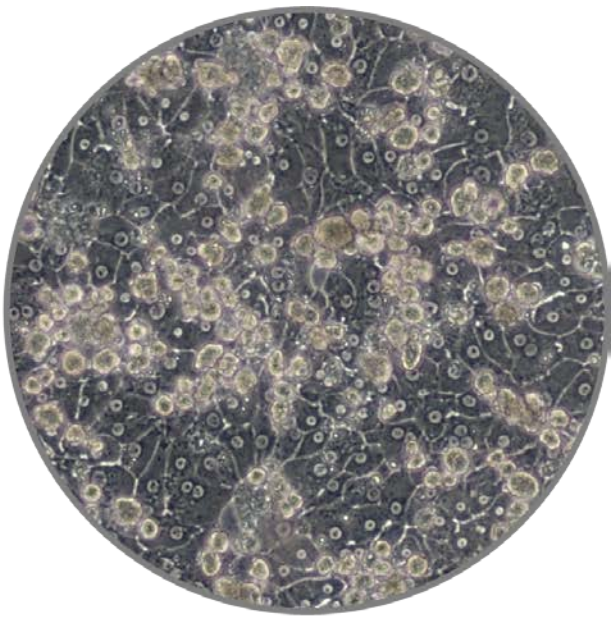
Post-thaw Viability and Cell Quality Assessment			
Thawing Medium Used	Centrifuge Conditions	% Viability (post-thaw)	Viable cell yield per vial
Cryopreserved Human Hepatocyte Thawing Medium	*100 x g for 8 min*	*90%*	*9.5 x 10^6 viable cells*

Monolayer Assessment					
Plating Medium Used	Culture Medium Used	Time Change to Culture Medium	Optimal Seeding Density	Initial Attachment Efficiency	Monolayer Confluency after 96hrs in culture
Human Hepatocyte Plating Medium	*Hepatocyte Maintenance Medium*	*6hrs*	*0.8 X 10^6 cells/mL*	*95%*	*90%*

Characterization was completed in a 24-well collagen-coated plate with extra-cellular matrix overlay



HUM4113, 48hrs, 10X



HUM4113, 72hrs, 10X

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Induction			
Isoforms	Control Inducer	Fold Induction Specific Activity	Fold Induction mRNA Expression
CYP1A2	*50µM Omeprazole*	*21.4*	*89.5*
CYP2B6	*1 mM Phenobarbital*	*21.9*	*18.8*
CYP3A4	*10µM Rifampicin*	*29.5*	*158.4*

Cryopreserved human hepatocytes were thawed and plated on 24-well collagen I coated plates, overlaid with Matrigel®, then dosed in triplicate with vehicle control (0.1% DMSO) or control inducers for 72 hours. The fold induction was calculated by dividing the induced level by the vehicle control level.

Media products used for characterization:
MCHT50 – Cryopreserved human hepatocyte thawing medium, 50mL
MP250 – Human hepatocyte plating medium, 250mL
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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