

Human Cryopreserved Hepatocytes

Lot number: HUM4024

Date: November 22, 2013



Cryo Characterization Report (CCR)

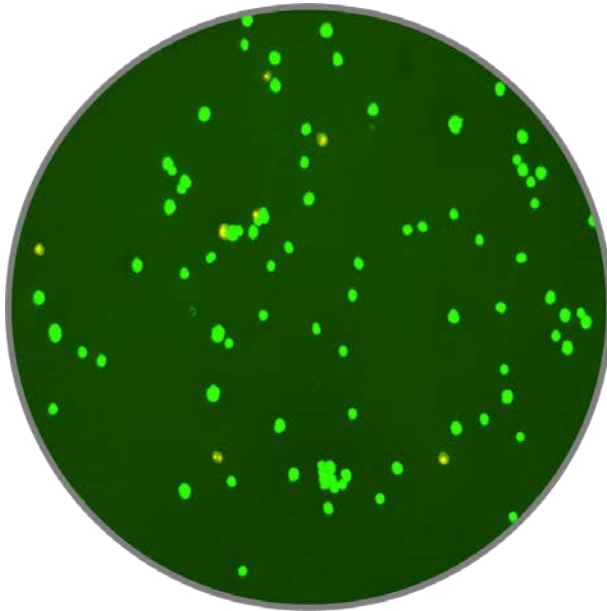
Lot Overview		
Qualification	Catalog Number	Quantity
Cryopreserved human hepatocytes, Suspension qualified	HUCSD	5.0x10 ⁶ viable cells/vial

Donor Demographics								
Sex	Race	Age	BMI	Tobacco Use	Alcohol Use	Drug Use	Serological Data	Cause of Death
Male	Caucasian	77	26	No	No	No	All Negative	Anoxia, Cardiac Arrest

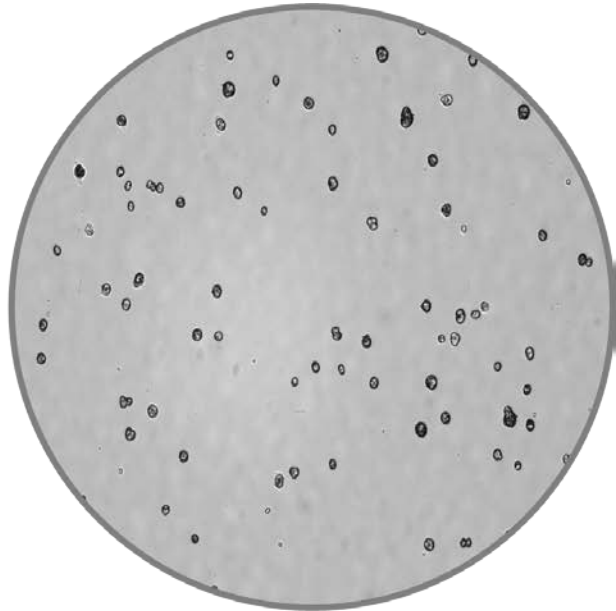
Additional donor demographic information, including relevant medical and medication history, is available upon request

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	86%	5.0x10 ⁶

HepatoMeter report available upon request



HUM4024 Post-Thaw Viability Assessment via HepatoMeter™



HUM4024 Post-Thaw Bright Field Image

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<i>Suspension Metabolism</i>			
Isoform	Substrate	Marker Metabolite	pmol/min/10 ⁶ cells
CYP1A2	100 μ M Phenacetin	Acetaminophen	4.82
CYP2A6	5 μ M Coumarin	7-Hydroxycoumarin	0.680
CYP2B6	500 μ M Bupropion	Hydroxybupropion	1.61
CYP2C8	20 μ M Paclitaxel	6 α -Hydroxypaclitaxel	0.226
CYP2C9	25 μ M Diclofenac	4-Hydroxydiclofenac	3.79
CYP2C19	250 μ M Mephenytoin	4-Hydroxymephenytoin	1.10
CYP2D6	15 μ M Dextromethorphan	Dextrophan	1.14
CYP2E1	250 μ M Chlorzoxazone	Hydroxychlorzoxazone	7.71
CYP3A4	200 μ M Testosterone	6 β -Hydroxytestosterone	10.3
CYP3A4	8 μ M Midazolam	Hydroxymidazolam	2.42
General	100 μ M 7-Ethoxycoumarin	7-Hydroxycoumarin	28.5
SULT	100 μ M 7-Hydroxycoumarin	7-Hydroxycoumarin Sulfate	24.4
UGT	100 μ M 7-Hydroxycoumarin	7-Hydroxycoumarin Glucuronide	332.5

<i>Suspension Uptake</i>		
Substrate	Incubation Time (min)	Facilitated Active Uptake (pmol/min/10 ⁶ cells)
1-Methyl-4-phenylpyridinium Iodide (MPP ⁺)	3	0.188
Taurocholate	1	0.511
Estrone sulfate	1	1.786

Contact customer service to place an order or to obtain additional information on any of our lots. This may include supplementary donor demographic information, current inventory, and photomicrographs at multiple timepoints and magnifications.

To contact TRL:

Main: 800-748-8979 or 919-549-3580

Sales: 919-549-3593

Email: customerservice@trlcells.com

Web: www.trlcells.com