

Human Cryopreserved Hepatocytes

Lot number: HUM4218

Date (D/M/Y): 19/05/2017

**Lonza**

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## Cryo Characterization Report (CCR)

Lot Overview		
Qualification	Catalog Number	Manufacture Date (D/M/Y)
Cryopreserved human hepatocytes, Induction	HUCPI	13-02-2017

Storage Conditions: &lt;-150°C

Donor Demographics								
Sex	Race	Age	BMI	Tobacco Use	Heavy Alcohol Use	Drug Use	Serological Data	Cause of Death
Male	Caucasian	19 yrs	15.1	No	No	No	Negative	Respiratory distress, extensive medical history

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

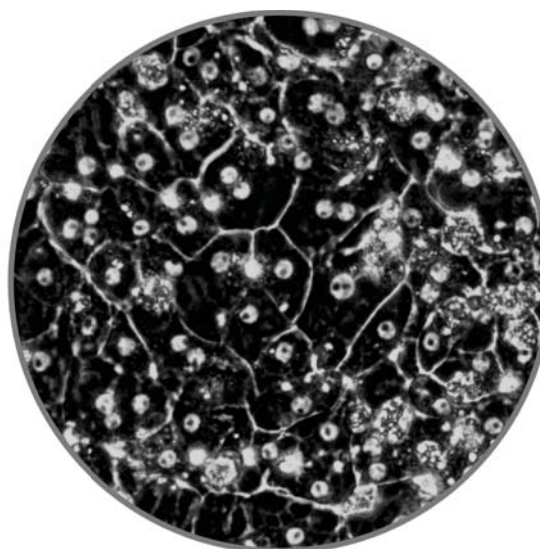
Post-thaw Viability and Cell Quality Assessment			
Thawing Medium Used	Optimal Centrifuge Conditions	% Viability (post-thaw)	Viable cell yield per vial
MCHT50	100 g x 8 minutes	87	$7.4 \times 10^6$

Monolayer Assessment					
Plating Medium Used	Well Format	Culture Medium Used	Optimal Seeding Density	Initial Attachment Efficiency	Monolayer Confluency @ 96 hrs
Hepatocyte Plating Medium (MP100)	24 well	Lonza HCM Medium (CC-3198)	$0.8 \times 10^6/mL$	100%	100%

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



HUM4218, 24hrs, 10X



HUM4218, 96hrs, 20X

<i>Induction</i>				
Isoforms	Control Inducer	Fold Induction Specific Activity	Fold Induction mRNA Expression	Basal Induction (pmol/million cells/min)
<i>CYP1A2</i>	<i>50µM Omeprazole</i>	<i>117.7</i>	<i>NA</i>	<i>3.5</i>
<i>CYP2B6</i>	<i>1mM Phenobarbital</i>	<i>30.5</i>	<i>NA</i>	<i>6.3</i>
<i>CYP3A4</i>	<i>10µM Rifampicin</i>	<i>57.0</i>	<i>NA</i>	<i>17.9</i>

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

MCHT50P - Cryopreserved pooled human hepatocyte thawing medium, 50mL

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 Lonza:

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