

Human Cryopreserved Hepatocytes
 Lot number: HUM4033
 Date: 08/02/16



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Cryo Characterization Report (CCR)

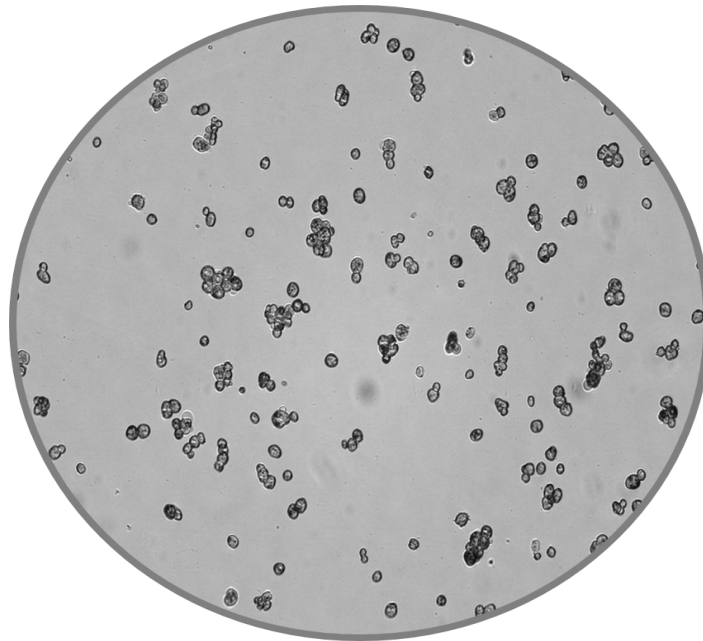
<i>Lot Overview</i>	
Qualification	Catalog Number
<i>Cryopreserved human hepatocytes, Suspension</i>	<i>HUCSD</i>

Storage Conditions: <-150°C

<i>Donor Demographics</i>								
Sex	Race	Age	BMI	Tobacco Use	Alcohol Use	Drug Use	Serological Data	Cause of Death
<i>Male</i>	<i>Caucasian</i>	<i>36 yrs</i>	<i>33</i>	<i>Yes</i>	<i>Yes</i>	<i>Yes</i>	<i>CMV</i>	<i>Anoxia</i>

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

<i>Post-thaw Viability and Cell Quality Assessment</i>			
Thawing Medium Used	Optimal Centrifuge Conditions	% Viability (post-thaw)	Viable cell yield per vial
<i>MCHT50</i>	<i>100 g x 8 minutes</i>	<i>89%</i>	<i>9.0 x 10⁶</i>



HUM4033 Post-Thaw Bright Field Image

<i>Suspension Metabolism</i>			
Isoform	Substrate	Marker Metabolite/ *Substrate Clearance	Activity (pmol/min/10 ⁶ cells)
<i>CYP1A2</i>	<i>100 μM Phenacetin</i>	<i>Acetaminophen</i>	<i>63.1</i>
<i>CYP2A6</i>	<i>5 μM Coumarin</i>	<i>7-Hydroxycoumarin</i>	<i>188.5</i>
<i>CYP2B6</i>	<i>500 μM Bupropion</i>	<i>Hydroxybupropion</i>	<i>27.9</i>
<i>CYP2C8</i>	<i>Paclitaxel</i>	<i>6α-Hydroxypaclitaxel</i>	
<i>CYP2C9</i>	<i>25 μM Diclofenac</i>	<i>4-Hydroxydiclofenac</i>	<i>3.8</i>
<i>CYP2C19</i>	<i>250 μM Mephenytoin</i>	<i>4-Hydroxymephenytoin</i>	
<i>CYP2D6</i>	<i>15 μM Dextromethorphan</i>	<i>Dextrorphan</i>	<i>69.4</i>
<i>CYP2E1</i>	<i>250 μM Chlorzoxazone</i>	<i>Hydroxychlorzoxazone</i>	
<i>CYP3A4</i>	<i>200 μM Testosterone</i>	<i>6β-Hydroxytestosterone</i>	<i>187.7</i>
<i>CYP3A4</i>	<i>8 μM Midazolam</i>	<i>Hydroxymidazolam</i>	<i>138.1</i>
<i>GENERAL</i>	<i>100 μM 7-Ethoxycoumarin</i>	<i>7-Ethoxycoumarin Clearance*</i>	<i>133.4</i>
<i>GENERAL</i>	<i>100 μM 7-Ethoxycoumarin</i>	<i>7-Hydroxycoumarin</i>	
<i>SULT</i>	<i>100 μM 7-Hydroxycoumarin</i>	<i>7-Hydroxycoumarin Sulfate</i>	<i>19.9</i>
<i>UGT</i>	<i>100 μM 7-Hydroxycoumarin</i>	<i>7-Hydroxycoumarin Glucuronide</i>	<i>79.5</i>

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 TRL:

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

Sales: 919-549-3593

Email: customerservice-trl@lonza.com

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