

Human Cryopreserved Hepatocytes

Lot number: HUM4070B

Date (D/M/Y): 09/05/2017

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Cryo Characterization Report (CCR)

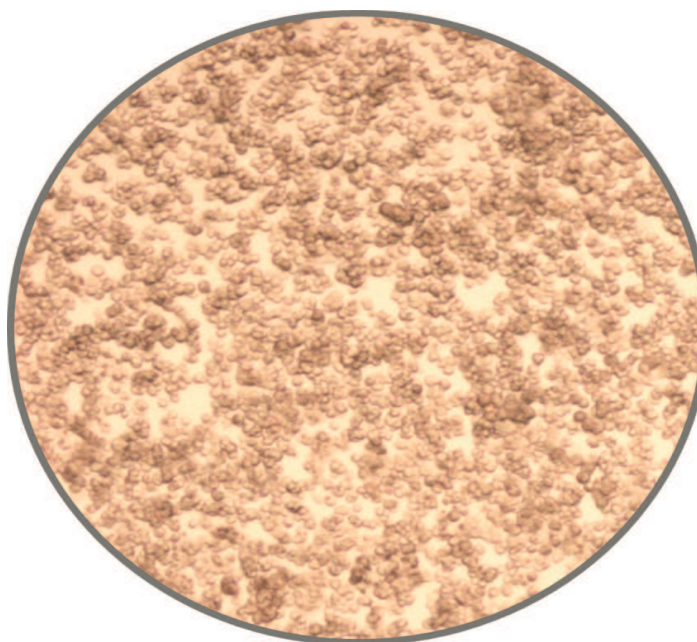
| <i>Lot Overview</i> | | |
|----------------------------------------------------|----------------|--------------------------|
| Qualification | Catalog Number | Manufacture Date (D/M/Y) |
| <i>Cryopreserved human hepatocytes, Suspension</i> | <i>HUCSD</i> | <i>07-03-2014</i> |

Storage Conditions: <-150°C

| <i>Donor Demographics</i> | | | | | | | | |
|---------------------------|------------------|---------------|-------------|-------------|-------------------|-----------|------------------|------------------|
| Sex | Race | Age | BMI | Tobacco Use | Heavy Alcohol Use | Drug Use | Serological Data | Cause of Death |
| <i>Female</i> | <i>Caucasian</i> | <i>22 yrs</i> | <i>23.4</i> | <i>No</i> | <i>No</i> | <i>No</i> | <i>Negative</i> | <i>Pneumonia</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>83</i> | <i>7.2 x 10⁶</i> |



HUM4070B, Post-Thaw, 5X

| <i>Suspension Metabolism</i> | | | |
|------------------------------|---------------------------------|--------------------------------------------|----------------------------------------------|
| Isoform | Substrate | Marker Metabolite/ *Substrate Clearance | Activity (pmol/min/10 ⁶ cells) |
| <i>GENERAL</i> | <i>100 μM 7-Ethoxycoumarin</i> | <i>7-Ethoxycoumarin Clearance*</i> | <i>NA</i> |
| <i>GENERAL</i> | <i>100 μM 7-Ethoxycoumarin</i> | <i>7-Hydroxycoumarin</i> | <i>19.0</i> |
| <i>SULT</i> | <i>100 μM 7-Hydroxycoumarin</i> | <i>7-Hydroxycoumarin Sulfate</i> | <i>13.5</i> |
| <i>UGT</i> | <i>100 μM 7-Hydroxycoumarin</i> | <i>7-Hydroxycoumarin Glucuronide</i> | <i>670.7</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 Lonza:

Customer Service: +1 800-638-8174 | order.us@lonza.com

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