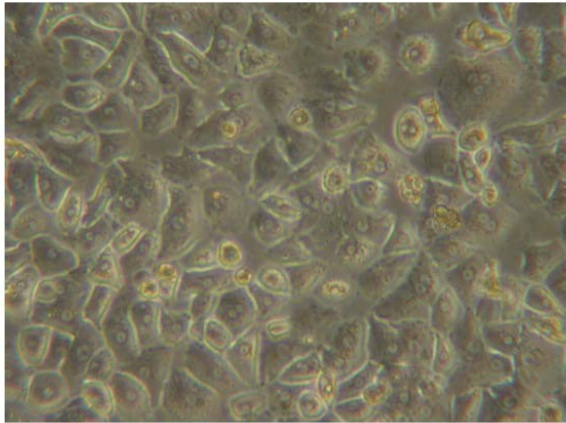
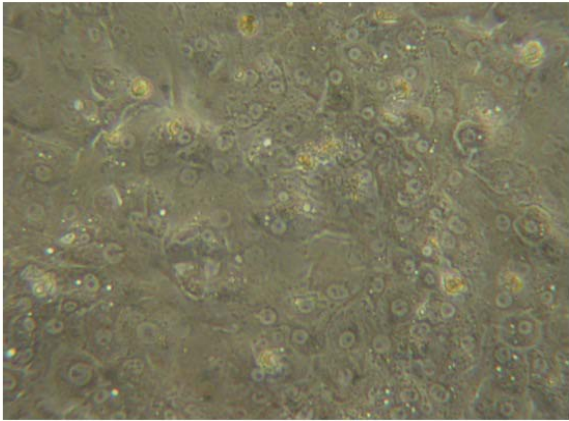


|   |                              |
|---|------------------------------|
| <b>HHCP-I Cryopreserved Plateable Human Hepatocytes for Induction</b> |                              |
| <b>Cell Specification</b>   |                              |
| Lot HH160531-1  | Batch Release: July 21, 2016 |

|  |  |
|--|--|
| Species: Human   | Gender: female   |
|  | Age: 59 years  |
| Cryopreservation:<br>Date: May 31, 2016<br>Amount per vial: 10.3 x 10 <sup>6</sup> cells   | Thawing:<br>Post-thaw viability: 94.6 %<br>Post-thaw yield per vial: 5.6 x 10 <sup>6</sup> cells<br>Recovery: 54 %           |
| Phase contrast on day 1 after thawing<br>                        | Phase contrast on day 3 after thawing<br> |
| Recommended seeding density on collagen-coated plates: 284,000 cells per cm <sup>2</sup><br>Culture in Human Hepatocyte Maintenance Medium (HHMM). |  |
| CYP P450 activity in culture after thawing:  | pmol/(mg × min)  |
| Ethoxyresorufin-O-deethylation:  | x-fold induction   |
| Induction with 10 µM beta-naphthoflavon  | 3.1 ± 0.3  |
| Induction with 25 µM beta-naphthoflavon  | 4.6 ± 1.5  |
|  | 1.7  |
|  | 2.5  |

Note: Yield, viability, recovery and activity assays were performed at PRIMACYT using PRIMACYT's manual for thawing, plating and culture of primary cryopreserved hepatocytes.

Issued by: J. Jia

Checked by: C. Garve