# CHCP-I-T  Cryopreserved Plateable Cynomolgus Hepatocytes for Induction and Transporter assays

## Cell Specification

<table>
<thead>
<tr>
<th>Lot CH131022-2</th>
<th>Batch Release: May 14, 2019</th>
</tr>
</thead>
</table>

### Species:
Macaca fascicularis

### Gender:
male

### Age:
3 years 7 months

### Serology:
Negative for Filovirus/Ebola-like, SRV, SIV, STLV-1

### Cryopreservation:
- **Date:** October 22, 2013
- **Amount per vial:** 10 x 10⁶ cells

### Thawing:
- **n=3**
- **Post-thaw viability:** 89.2 ± 1.6 %
- **Post-thaw yield per vial:** 6.7 ± 1.2 x 10⁶ cells
- **Recovery:** 67 %

### Phase contrast on day 1 after thawing

![Phase contrast on day 1 after thawing](image1)

### Phase contrast on day 4 after thawing

![Phase contrast on day 4 after thawing](image2)

### Recommended seeding density on collagen-coated plates:
210,000 cells per cm²

### Culture in Human Hepatocyte Maintenance Medium (HHMM)

<table>
<thead>
<tr>
<th>CYP P450 activity in culture after thawing:</th>
<th>pmol/(mg × min)</th>
<th>X-fold induction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethoxyresorufin-O-deethylation:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Induction with 10 µM beta-naphthoflavone</td>
<td>4.5 ± 1.5</td>
<td>25.7</td>
</tr>
<tr>
<td>Induction with 25 µM beta-naphthoflavone</td>
<td>8.5 ± 1.3</td>
<td>45.1</td>
</tr>
</tbody>
</table>

### Uptake transporters:
Uptake of 10 µM Estrone 3-sulfate (E3S) with or without competitive inhibitor Bromosulfophthalein (BSP, 100 µM) in cryopreserved hepatocytes after 2 min incubation.

<table>
<thead>
<tr>
<th>Activity of uptake transporters in culture after thawing</th>
<th>Intracellular E3S (pmol/mg × min)</th>
<th>Inhibition (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Without BSP</td>
<td>385 ± 9</td>
<td>36.7</td>
</tr>
<tr>
<td>With BSP</td>
<td>244 ± 80</td>
<td></td>
</tr>
</tbody>
</table>

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: A. Ullrich

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