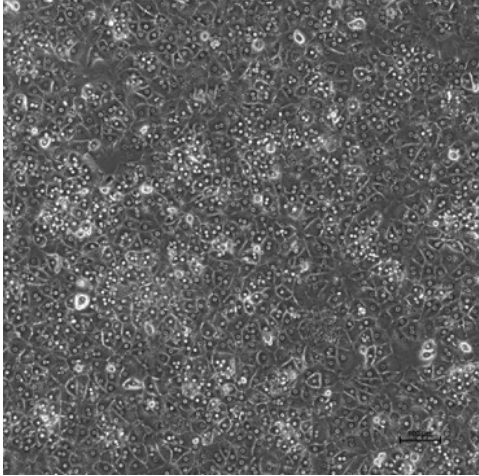
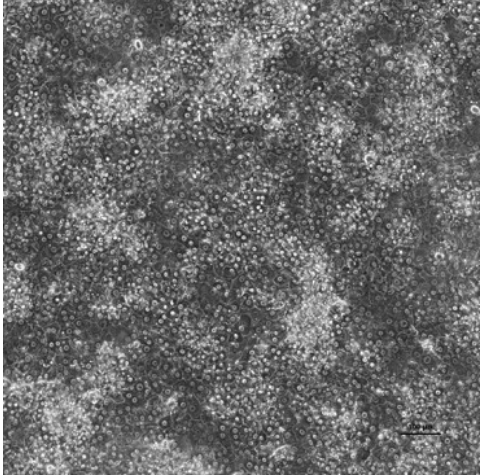


<b>CHCP-I-T Cryopreserved Plateable Cynomolgus Hepatocytes for Induction and Transporter assays</b>	
<b>Cell Specification</b>	
Lot CH140113-2	Batch Release: June 9, 2017

Species: <i>Macaca fascicularis</i> Gender: male      Age: 4 years	Serology: negative for Filovirus/Ebola-like, SRV, SIV, STLV-1	
Cryopreservation: Date:                      January 13, 2014 Amount per vial:      15.2 x 10 <sup>6</sup> cells	Thawing: Post-thaw viability: 90 % Post-thaw yield per vial: 8.4 x 10 <sup>6</sup> cells Recovery: 55 %	
Phase contrast on day 1 after thawing (24well plate)	Phase contrast on day 3 after thawing (24well plate)	
		
Recommended seeding density on collagen-coated plates: 24well plate – 300,000 cells/well 96well – 70,000 cells/well Culture in Culture in Human Hepatocyte Maintenance Medium (HHMM).		
CYP P450 activity in culture after thawing: Ethoxyresorufin-O-deethylation: Induction with 25 µM beta-naphthoflavone	pmol/(mg × min)  24well: 23.9 ± 0.4 96well: 75.9 ± 37.5	X-fold induction  10.3 7.9

Uptake Transporters: uptake of 10 $\mu$ M Estrone 3-sulfate ( $E_3S$ ) with or without competitive inhibitor Bromosulphophthalein (BSP, 100 $\mu$ M) in cryopreserved hepatocytes after 2 min incubation.		
Activity of uptake transporters in culture after thawing	intracellular $E_3S$ (pmol/mg $\times$ min)	Inhibition (%)
without BSP	417 $\pm$ 175	
with BSP	264 $\pm$ 30	36.7
Efflux Transporter: after 5 min preincubation with 10 $\mu$ M Talinolol (Tal), P-glycoprotein (P-gp) mediated Efflux of Tal with or without the specific P-gp inhibitor PSC833 (10 $\mu$ M) in cryopreserved hepatocytes after 60 min incubation was analyzed.		
Activity of P-gp in culture after thawing	intracellular Tal (pmol/mg)	
without PSC833 after 60 min	223 $\pm$ 89	
with PSC833 after 60 min	346 $\pm$ 4	
<p>Note: Yield, viability, recovery and activity assays were performed at PRIMACYT using PRIMACYT's manual for thawing, plating and culture of primary cryopreserved hepatocytes.</p> <p>Issued by: A. Ullrich <span style="float: right;">Checked by: C. Garve</span></p>		