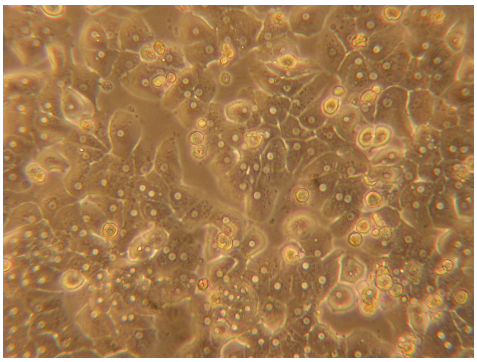
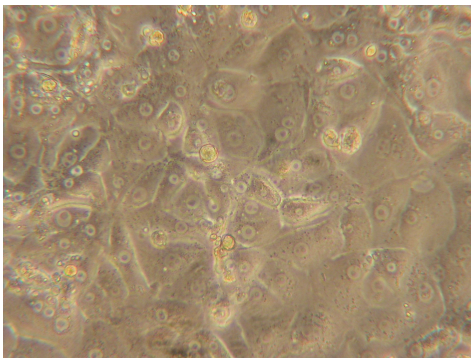
PRIMACYT
Cell Culture Technology

BHCP-I-T Cryopreserved Plateable Beagle Hepatocytes for Induction and Transporter assays
Cell Specification

Lot BH130510-1-2 | Batch Release: Nov 06, 2014 – Updated: May 16, 2019

Species: Beagle	Gender: male Age: 9 months
Cryopreservation: Date: May 10, 2013 Amount per vial: 10.3 x 10^6 cells	Thawing: n=3 Post-thaw viability: 72.9 ± 3.8 % Post-thaw yield per vial: 6.6 ± 1.0 x 10^6 cells Recovery: 64 %
Phase contrast on day 1 after thawing	Phase contrast on day 3 after thawing





Recommended seeding density on collagen-coated plates: 283,000 cells per cm^2
Culture in Human Hepatocyte Maintenance Medium (HHMM).

CYP P450 activity in culture after thawing:	pmol/(mg × min)	x-fold induction
Ethoxyresorufin-O-deethylation:		
Induction with 10 µM beta-naphthoflavone	19.9 ± 2.4	25.2
Induction with 25 µM beta-naphthoflavone	33.7 ± 0.7	42.5

Suspension culture

Viability test on shaker:

Time (h)	0	0.5	1	1.5	2	3	4
Viability (%)	73.7	81.7	69.9	67.7	61	55.6	51.4

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Uptake transporters: uptake of 10 µM Estrone 3-sulfate (E_3S) with or without competitive inhibitor Bromosulfophthalein (BSP, 100 µM) in cryopreserved hepatocytes after 2 min incubation.		
Activity of uptake transporters in culture after thawing	intracellular E_3S (pmol/mg × min)	Inhibition (%)
without BSP	154 ± 7	
with BSP	93 ± 3	39.6

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

Store at -150 °C or in the vapour phase of LN_2
This product should be considered as potential biohazard. Only intended for *in vitro* use.

Updated by: D. Runge, May 16, 2019 Checked by: T. Krimmling, May 16, 2019

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