Updated on: 14th May 2019

CERTIFICATE OF ANALYSIS

Lot#: CH130515-1

PRODUCT DESCRIPTION

Reference: CHCP-I-T

Product: Cynomolgus Hepatocytes

Category: Cryopreserved Plateable, Cytochrome P450 inducible and transporters

Cryopreservation date: 5th May 2013

Storage conditions: Storage conditions: -196ºC

DONOR DEMOGRAPHICS

Species	Sex	Race	Age	Serology
Monkey	Female	*Macaca fascicularis*	5 year 2 months	negative for Filovirus/Ebola-like, SRV,SIV, STLV-1

For *in vitro* use only, not to be used for clinical application. Products distributed by Cytes Biotechnologies may contain animal material that should be treated as potentially hazardous.

CHARACTERIZATION FOR PLATEABLE CELLS

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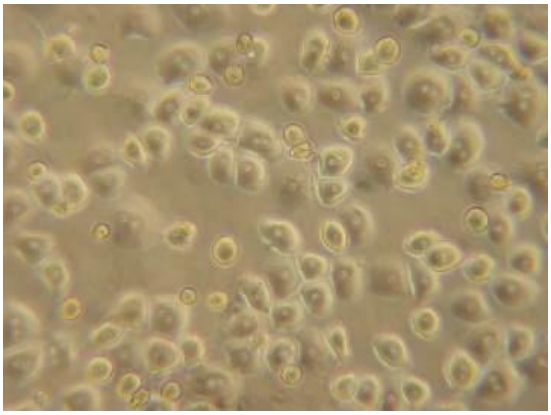
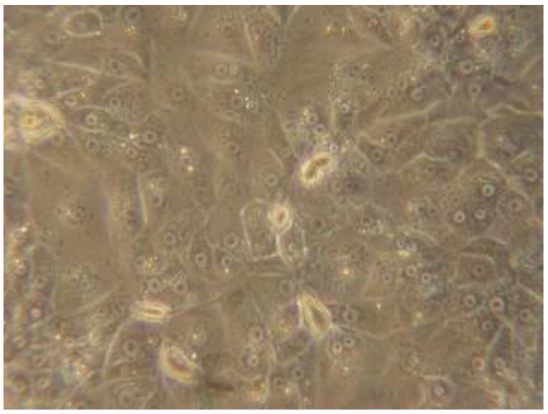
Post Thaw Lot information (n=2)	
Number of viable cells/vial: $8.4 \times 10^6 \pm 1.3$ **Post-thaw viability (%):** 87.5 ± 0.7	**Monolayer assessment*** **Plateability: YES** **Seeding density recommended on collagen-coated plates:** 210,000 cells per cm^2
Cell morphology 24h	**Cell morphology 72h**
	

Hepatocytes were thawed and seeded according to Cytes Biotechnologies protocol. The post-thawing yield and viability (trypan blue exclusion assay) of hepatocytes were assessed after a purification process.

INDUCTION FOR PLATEABLE CELLS

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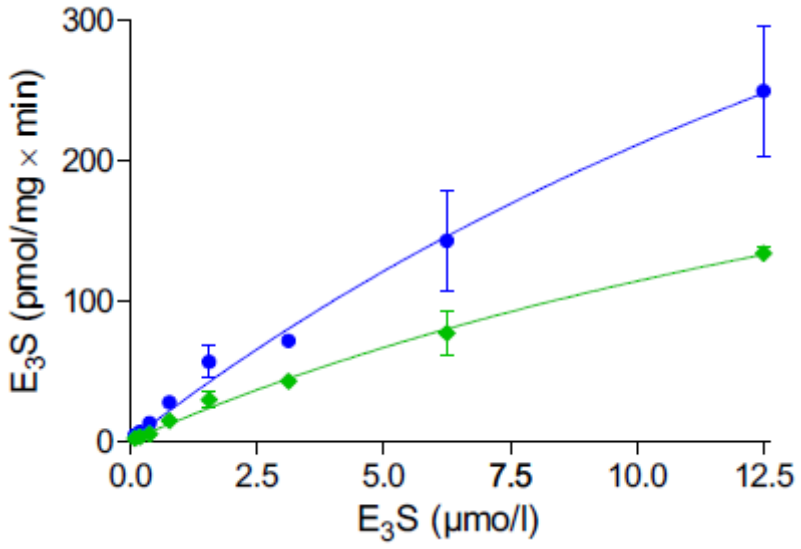
CYP P450 activity in culture after thawing		
Ethoxyresorufin-O-deethylation	pmol/(mg × min)	x-fold induction
10 µM beta-naphthoflavone	9.1 ± 2.2	5.4
25 µM beta-naphthoflavone	13.1 ± 0.63.7	7.7

UPTAKE TRANSPORTERS

Activity of uptake transporters in culture after thawing		
	K_m (µmol/l)	V_{max} (pmol/mg x min)
Without BSP	29.3 ± 14.3	829 ± 305
With BSP	24.8 ± 6.3	397 ± 73



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