

CERTIFICATE OF ANALYSIS

Page 1 of 2

Cell Line Details

Product code: HEP-003

Product name: iPSC-derived Human Hepatocytes: Wild-Type

Lot number: XXXXXX

Storage conditions: Store at less than -130°C

QC completion date: XXXXXX

Cell Quality Controls

Test	Method	Specification	Result
Virus test for original iPSC clone (HIV1, HIV2, Hepatitis A, HBV, HCV, HTLV-1, HTLV-2)	PCR	Not detected	Pass
Post thaw viability	Automated cell counter	≥ 70% viable	Pass
Viable cells per vial	Automated cell counter	≥ 5.0 x 10 ⁶	Pass
Cell morphology	Visual check	N/A	Pass (Fig.1)
Key hepatocyte maturity markers (<i>ALB</i> , <i>A1AT</i> , <i>HNF4a</i>)	qPCR	Present	Pass (Fig.2)

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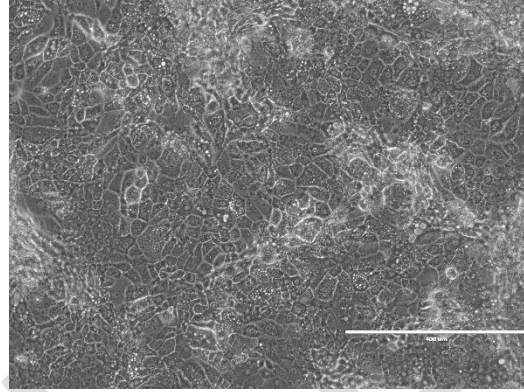
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Page 2 of 2

Appendix

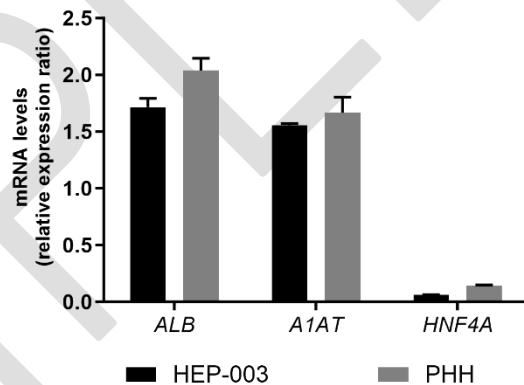
1. Cell morphology

Figure 1. Morphology of cryopreserved hepatocyte-like cells, 14 days post-thaw. Brightfield picture, magnification: 100x.



2. Detection of hepatocyte maturity markers via qPCR

Figure 2. mRNA expression of the key hepatocyte maturity markers *ALB* (Albumin), *A1AT* (Alpha-1 Antitrypsin) and *HNF4A* (Hepatocyte Nuclear Factor-4) in cryopreserved hepatocyte-like cells (black bars) and primary human hepatocytes (PHH, grey bars), 14 days post-thaw. mRNA data are normalized to endogenous *PPIA* expression, and are presented as mean \pm SD of n=3 technical replicates.



Checked by,

signature

QC Scientist

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