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PRODUCT INFORMATION SHEET

Lot: HL170051SC

FOR RESEARCH USE ONLY

Cell Type: Adult human hepatic stellate cells

Population doubling time: XX days

Post thaw yield:

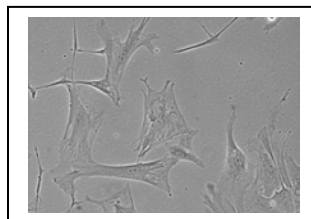
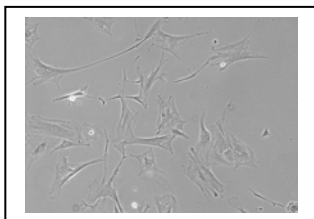
Post thaw viability: > 65%

Passage 0-1: > 0.60 x 10⁶ cells per vial

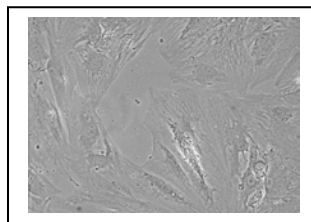
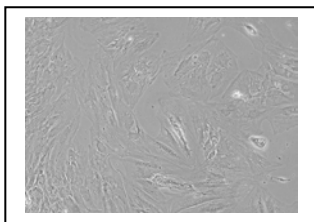
Passage 2-4: > XX x 10⁶ cells per vial

Culture morphology: Shown for passage p1 cells

<50% Confluent



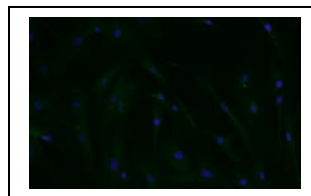
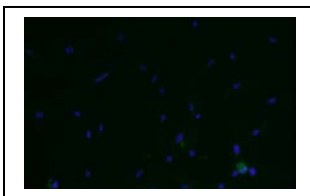
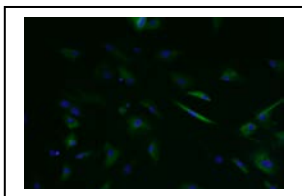
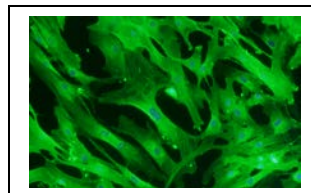
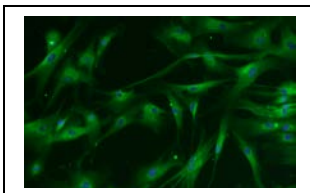
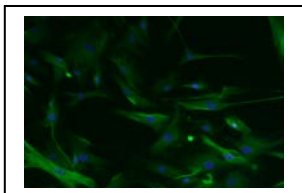
>85% Confluent



100X

200X

Phenotype in culture:



Fluorescent Staining Shown at passage p1 (200x). Desmin: Thermo #RB-9014-P0, 1:200; GFAP: Abcam ab7260, 1:200; SMA Abcam ab5694, 1:200; TE-7 Millipore CBL271, 1:300.

Results above determined by following Samsara stellate cell care and handling protocols

SAM PI Lot: HL170051SC_v2
Refer to Donor History Report for Additional Donor Details

Samsara Sciences, Inc.
6310 Nancy Ridge Dr., Ste. 106
San Diego, CA 92121
Phone: 858-617-0790
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info@samsarasciences.com

Know your cells. Trust your data.



PRODUCT INFORMATION SHEET

Human Liver Endothelial Cells

Lot: HL170051EC

For Research Use Only

Cell Type: Adult human liver endothelial cells

Post thaw yield: $> 1.0 \times 10^6$ /vial

Average cell size: 20.4 microns

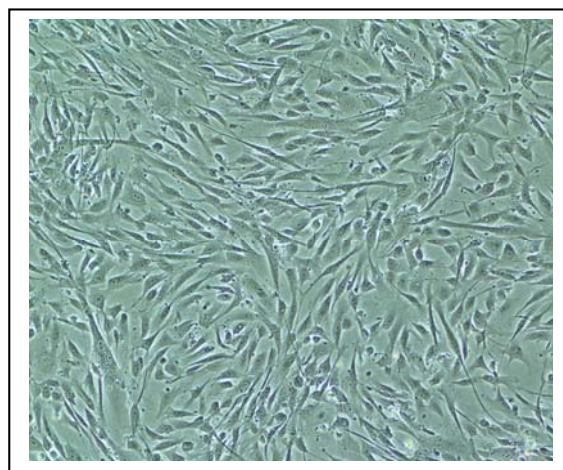
Cells provided: Cryopreserved post isolation

Post thaw viability: $>85\%$

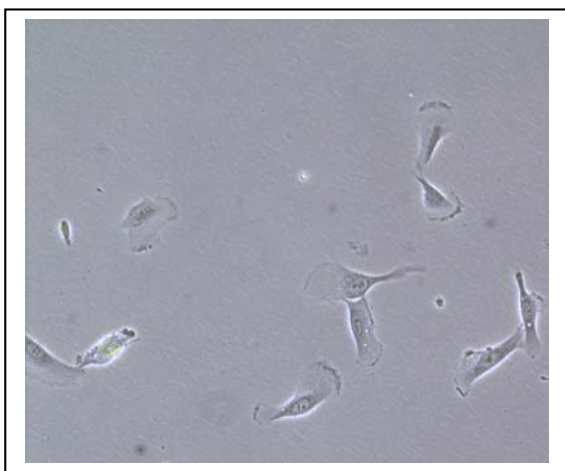
Culture morphology:



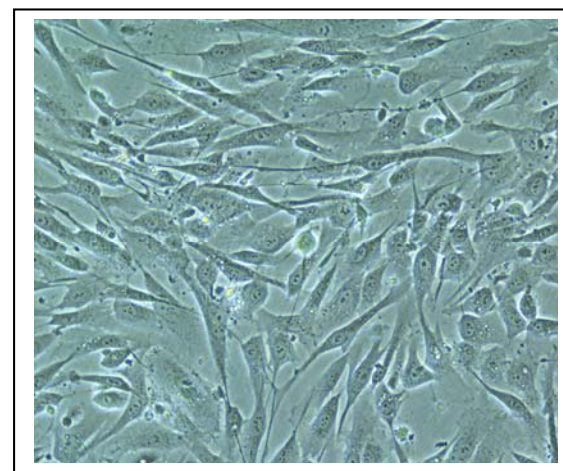
<50% Confluence 100X



>85% Confluence 100X



<50% Confluence 200X



>85% Confluence 200X

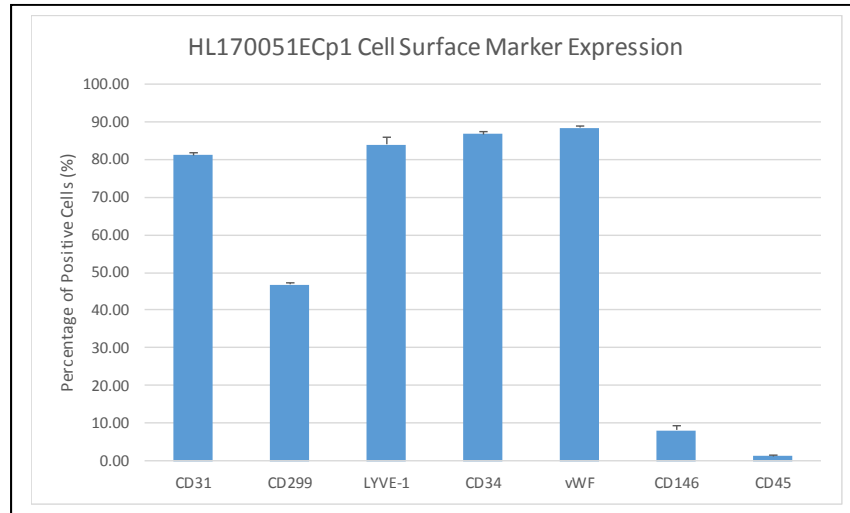
SAM PI HL170051EC_v2

Refer to Donor History Record for Additional Donor Details

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Flow cytometry profile



Results above determined by following Samsara endothelial cell care and handling protocols

DONOR HISTORY REPORT

HL160034

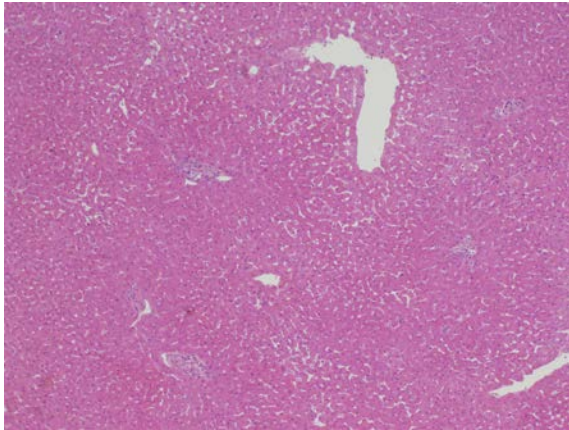
DONOR CHARACTERISTICS: HL160034	
AGE:	57
GENDER:	F
ETHNICITY:	African American
HEIGHT (inches):	67
WEIGHT (kg):	101.9
BMI:	35.2
HbA1c (%):	Not reported
CAUSE OF DEATH:	Cardiac arrest/Anoxia

DONOR MEDICAL HISTORY: HL160034	
CIGARETTE USE:	No
HEAVY ALCOHOL USE (2+ drinks/day):	No
IV DRUG USE:	No
POSITIVE TOXICOLOGY:	No
SEROLOGY:	EBV+ and CMV+ non-reactive for: HIV, HTLV, HBV, HCV, and syphilis
POSITIVE (BACTERIAL):	Not reported
MEDICAL EXAM NOTES:	None provided
MEDICATIONS (REGULAR):	None reported
PAST MEDICAL HISTORY:	Sarcoidosis, GERD, Hypertension, hyperlipidemia, depression

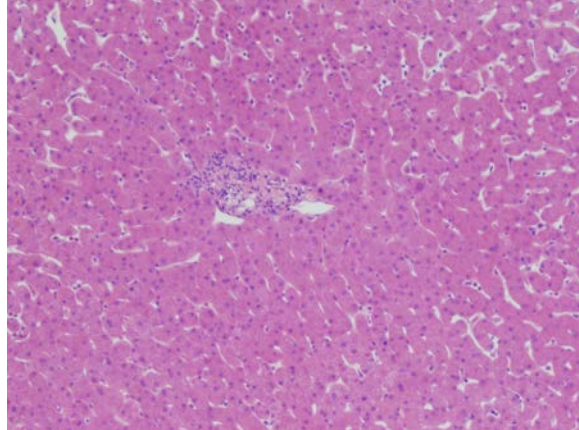
PATHOLOGY ASSESSMENT	
PATHOLOGIST:	M. Hosseini (UCSD)
STEATOSIS GRADE:	0 of 3
INFLAMMATION SCORE*:	0-1 of 4
FIBROSIS SCORE*:	0 of 4
NAFLD ACTIVITY SCORE**:	0 of 8
OTHER NOTES:	Focal plasmacytic infiltrate with rare necrosis.

*Batts-Ludwig methodology; **NASH CRN scoring system (Hepatology 2005; 41:1313-1321)

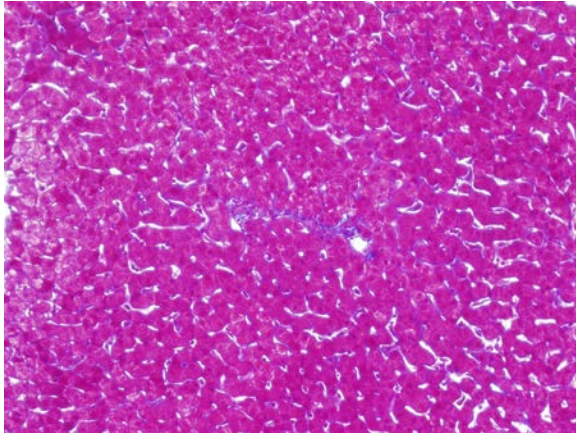
H&E (40x)



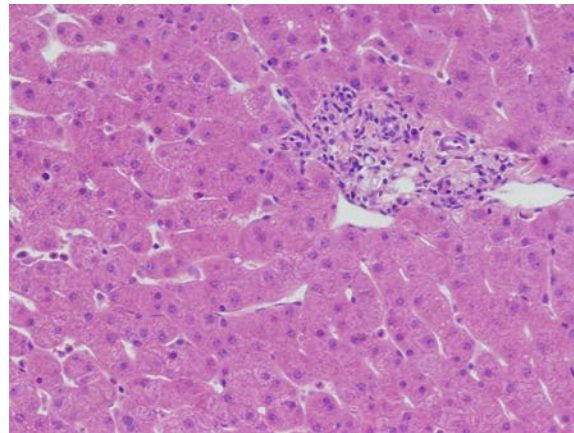
H&E (100x)



Trichrome (100x)



H&E (200x)



DONOR HISTORY REPORT

HL170051

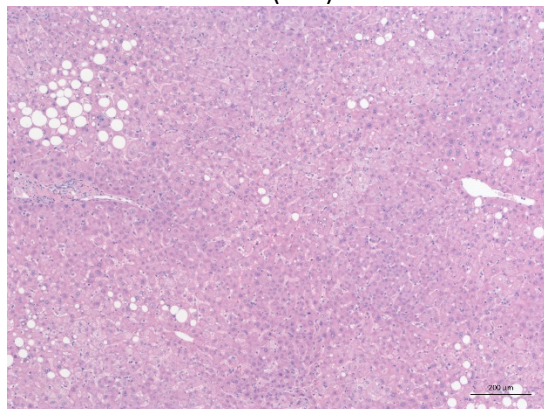
DONOR CHARACTERISTICS: HL170051	
AGE:	64
GENDER:	M
ETHNICITY:	Caucasian
HEIGHT (inches):	70
WEIGHT (kg):	118
BMI:	37.2
HbA1c (%):	Not reported
CAUSE OF DEATH:	Anoxia/Cardiac arrest

DONOR MEDICAL HISTORY: HL170051	
CIGARETTE USE:	No
HEAVY ALCOHOL USE (2+ drinks/day):	No
IV DRUG USE:	No
POSITIVE TOXICOLOGY:	EtOH <9mg/DL
SEROLOGY:	CMV+, EBV+ Non-reactive for: HIV, HTLV, HBV, HCV and syphilis
POSITIVE (BACTERIAL):	Negative
MEDICAL EXAM NOTES:	Nothing remarkable
MEDICATIONS (REGULAR):	Unknown for depression and acid reflux
PAST MEDICAL HISTORY:	Orchidectomy of a cancerous testicle (2002),

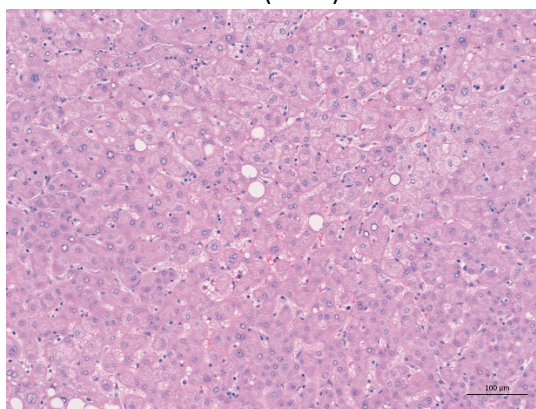
PATHOLOGY ASSESSMENT	
PATHOLOGIST:	M. Hosseini (UCSD)
STEATOSIS GRADE:	0 of 3
INFLAMMATION SCORE*:	1 of 4
FIBROSIS SCORE*:	0 of 4
NAFLD ACTIVITY SCORE**:	1 of 8
OTHER NOTES:	Minimal portal inflammation

*Batts-Ludwig methodology; **NASH CRN scoring system (Hepatology 2005; 41:1313-1321)

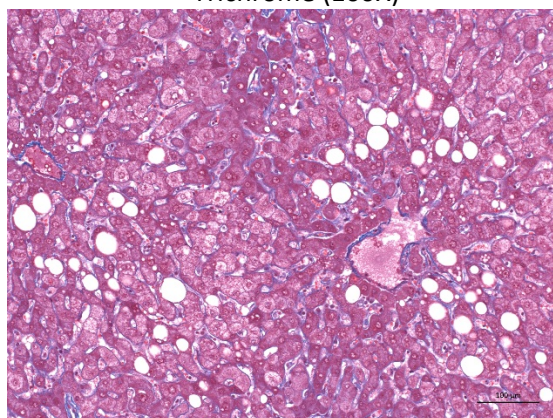
H&E (50X)



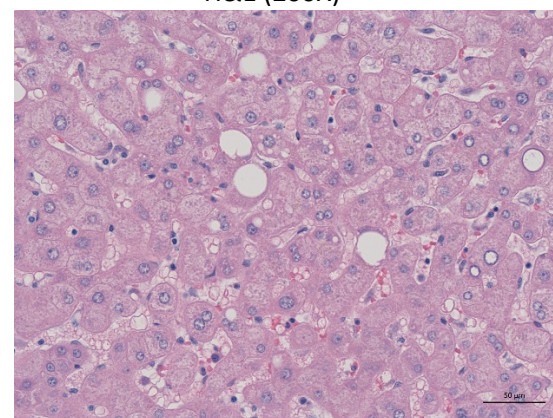
H&E (100X)



Trichrome (100X)



H&E (200X)



DONOR HISTORY REPORT

HL170063

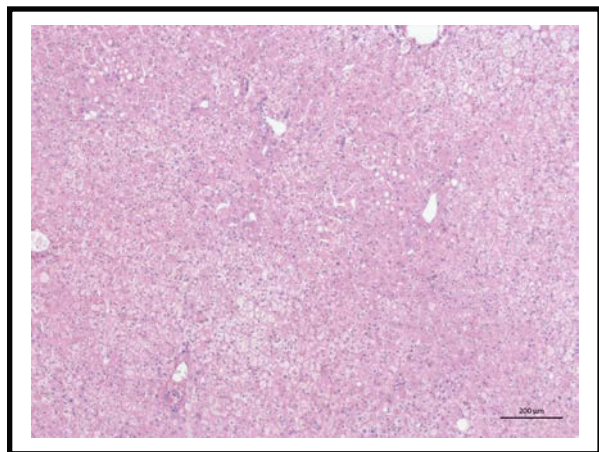
DONOR CHARACTERISTICS: HL170063	
AGE:	59
GENDER:	F
ETHNICITY:	Caucasian
HEIGHT (inches):	60
WEIGHT (kg):	63.6
BMI:	27.4
HbA1c (%):	Not done
CAUSE OF DEATH:	ICH/Stroke

DONOR MEDICAL HISTORY: HL170063	
CIGARETTE USE:	No
HEAVY ALCOHOL USE (2+ drinks/day):	No
IV DRUG USE:	No
POSITIVE TOXICOLOGY:	Negative
SEROLOGY:	EBV+ Non-reactive for: HIV, HCV, HBV, CMV, Syphilis
POSITIVE (BACTERIAL):	No
MEDICAL EXAM NOTES:	Not remarkable
MEDICATIONS (REGULAR):	None listed
PAST MEDICAL HISTORY:	Hyperlipidemia

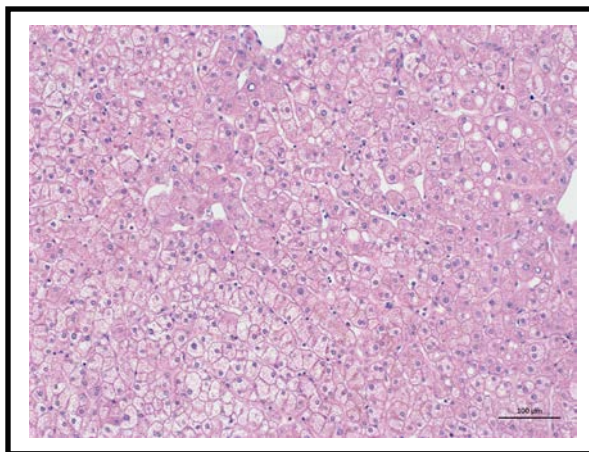
PATHOLOGY ASSESSMENT	
PATHOLOGIST:	Mojgan Hosseini (UCSD)
STEATOSIS GRADE:	0 of 3
INFLAMMATION SCORE*:	0 of 4
FIBROSIS SCORE*:	0 of 4
NAFLD ACTIVITY SCORE**:	0 of 8
OTHER NOTES:	A little ischemic looking, maybe due to drug injury but minimal.

*Batts-Ludwig methodology; **NASH CRN scoring system (Hepatology 2005; 41:1313-1321)

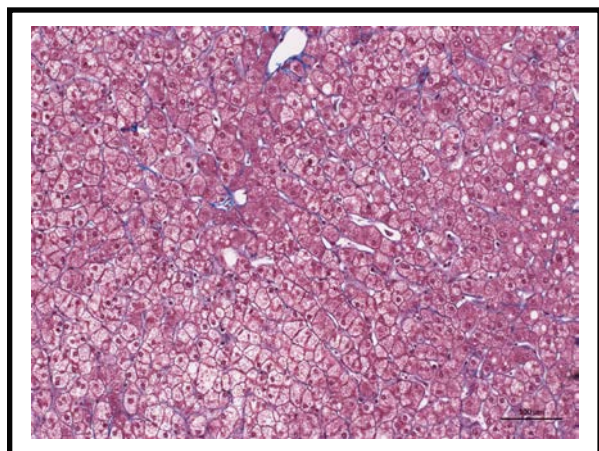
H&E (50x)



H&E (100x)



Trichrome (100x)



H&E (200x)

