

FOR RESEARCH USE ONLY. CAUTION: Not intended for human diagnostic or therapeutic uses. Users should treat all human cells as potential pathogens. Wear protective clothing and eyewear. Practice appropriate disposal techniques for potentially pathogenic or bio-hazardous materials.

PRODUCT INFORMATION:

Product name: _____ Lot identifier: _____

Post-thaw viability of \geq ____ %

Post-thaw confluency \geq ____ % on day 5

Contains a minimum of ____ x 10⁶ viable cells/mL

DONOR DEMOGRAPHICS:

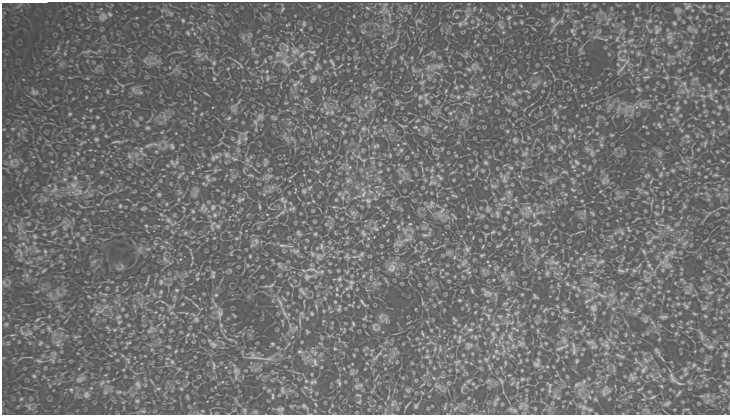
Sex: _____ Age: _____ BMI: _____ Ethnicity: _____ COD: _____

Donor negative for: HIV, HCV, HBV, RPR

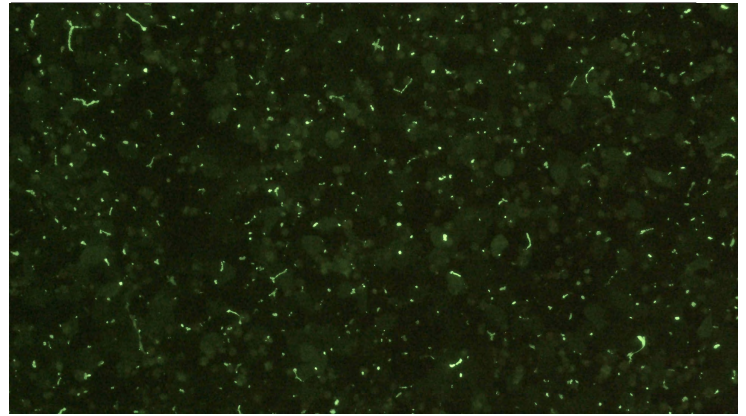
Culture negative for: Gram+, Gram-, Mycoplasm, Fungi

PLATING:

Recommended seeding density (million cells/mL): _____ Recommended thaw medium: _____



Lot _____ hours post-plating



Lot _____ hours post-plating*

* Carboxy-DCFDA was used to visualize the bile canaliculi formation in polarized hepatocytes.

METABOLIC ACTIVITY

ENZYME	SUBSTRATE	CONCENTRATION (μ M)	ENZYME ACTIVITY (<i>pmole/min/million cells</i>)
CYP1A2	Phenacetin	100	
CYP2A6	Coumarin	50	
CYP2B6	Bupropion	500	
CYP2C8	Amodiaquine	20	

METABOLIC ACTIVITY *(cont.)*

ENZYME	SUBSTRATE	CONCENTRATION (μM)	ENZYME ACTIVITY <i>(pmole/min/million cells)</i>
CYP2C9	Diclofenac	25	
CYP2C19	S-mephenytoin	250	
CYP2D6	Dextromethorphan	15	
CYP2E1	Chlorzoxazone	250	
CYP3A4	Testosterone	100	
CYP3A4	Midazolam	20	
Phase I CYP	7-ethoxycoumarin	100	
SULT	7-hydroxycoumarin sulfation	100	
UGT	7-hydroxycoumarin glucuronidation	100	
AO	Zoniporide	100	

Hepatocytes in suspension (0.5 million/mL) were incubated with substrate at 37°C in 5% CO₂ and 90% humidity for 30 minutes, respectively. The concentrations of the metabolites were determined using LC-MS/MS methods.

TRANSPORTER ACTIVITY

TRANSPORTER	SUBSTRATE	UPTAKE ACTIVITY RATE <i>(pmole/min/million cells)</i>
OATP1B1/3	Estrone 3-sulfate	
OCT1/2	1-Methyl-4-phenylpyridinium iodide	
NCTP	Taurocholic acid	

Hepatocytes in suspension (0.5 million/mL) were incubated in substrate (10 μM) on ice and then at 37°C for 3 minutes, respectively. Hepatocytes were separated from the medium by oil-spin method. The substrate concentrations were determined by specific LC/MSMS method.

TRANSPORTER	SUBSTRATE	EXPORT ACTIVITY RATE <i>(pmole/min/million cells)</i>
BSEP	Glycocholic acid	

Hepatocytes in suspension (0.25 million/mL) were incubated with cholic acid-d₄ (10 μM) at 37°C in 5% CO₂ and 90% humidity for 60 minutes. The concentration of glycocholic acid were determined using a LC/MSMS method.

The cells from this lot were derived from tissue obtained from accredited institutions. Consent was obtained by these institutions from the donor or the donor's legal next of kin, for use of the tissue and its derivatives for research purposes.



Najah Abi-Gerges, PhD.
VP, Research & Development

Date

AnaBios
Early Human Insights

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Donor Demographic Form

Donor Information

Age: 48 Ethnicity: Caucasian Sex: M
 Height (cm): 175.3 Weight (kg): 78.2 BMI: 25.5
 COD: Anoxia/Drug Intoxication

Consent for Research confirmed through visual by AnaBios Coordinator (Yes or No): Yes

Past Medical History

Respiratory Disease No Yes
 Cardiac Disease No Yes
 Hypertension No Yes 3 weeks ago
 Neurological Disease No Yes
 Cancer No Yes
 Diabetes No Yes
 Liver Disease No Yes
 GI Disease No Yes
 Kidney Disease No Yes
 Urinary Tract Disease No Yes
 Tobacco No Yes
 Alcohol No Yes 12-15 beers or liquor drinks daily for 30 years
 Drug Use No Yes Snorted Amphetamines on and off, maybe 5-6 times a month for more than 5 years
 Medication Home No Yes Lisinopril, Librium, Trazodone, Ibuprofen, Potassium, Men's daily multivitamin

Comments None

Serology

	(Yes/No)	<u>Negative</u>	<u>Positive</u>		(Yes/No)	<u>Negative</u>	<u>Positive</u>
Anti – HCV	Yes	Negative	-	HBs Ab	No	-	-
Anti – HIV 1/2	Yes	Negative	-	HBs Ag	Yes	Negative	-
Anti – HTLV 1/2	No	-	-	RPR/STS/VDRL	Yes	Negative	-
CMV	No	-	-	HCV NAT	Yes	Negative	-
CMV IgG	Yes	-	Positive	HCV RIBA	No	-	-
CMV IgM	No	-	-	HIV NAT	Yes	Negative	-
EBNA	No	-	-	WNV IgM	No	-	-
EBV IgG	No	-	-	HBV	Yes	Negative	-
EBV IgM	No	-	-	Toxo	No	-	-
HBc Total	Yes	Negative	-	WNV NAT	Yes	Negative	-
HBc Ab IgG	No	-	-	Chagas	Yes	Negative	-
HBc Ab IgM	No	-	-	SARS-CoV-2	Yes	Negative	-

Authorized by:



 Signature

18-Jan-2023

 Date