

Updated on: 24th march 2023

CERTIFICATE OF ANALYSIS

Lot#: BHum15074

PRODUCT DESCRIPTION

Reference: HuHECP/6+ Isolation date:
Product: Cryopreserved Human Hepatocytes Initial Isolation

Category: Plateable Storag
Spheroid qualified: NO Sterilit

(see details below: 3D Spheroid formation section)

DONOR DEMOGRAPHICS

Isolation date: 23rd December 2015 Initial Isolation Viability: 81% Storage conditions: -196°C using LN₂

Sterility test: negative for bacteria, yeast, and

fungi

Species	Gender	Race	Age	ВМІ	Smoker	Alcohol Use	Drug Use
Human	Male	Caucasian	66	25.28	No	No	No
Р	athology				Serological	Data ¹	
Colo	rectal cance	r	Tested negative less than 3 months before surgery			ry	

Patient informed consent was obtained. ¹The donor was serologically tested negative for following infectious diseases: HIV, Hepatitis B and C. Donor medical history was also examined prior to accepting this donor. *For donor's medication information, please contact us.*

CHARACTERIZATION FOR PLATEABLE CELLS

Post Thaw Lot information	Result	SD	n		
Number of viable cells (cells/vial):	7.70 x10 ⁶	± 0.00	1		
Post-thaw viability (%):	93.00	± 0.00	1		
Days in culture after thaw (24w):	5	± 0.00	1		
MONOLAYER ASSESSMENT ² Plateable: YES					

Human hepatocytes were thawed and seeded according to Cytes Biotechnologies culture protocol. The yield and viability were determined by a trypan blue exclusion assay after the thawing process. ²Resuspended human hepatocytes from post-thaw assessment were plated in collagen-coated 24-well plates in hepatocyte plating medium. Cells were refreshed with hepatocytes maintenance medium at first medium during the first change of medium on the day of thawing. Maintenance medium was replaced in the culture every day. If images from the 96-well plates are needed, please contact us.

3D SPHEROID FORMATION

Spheroid morphology

Cytes **does not guarantee** that these primary hepatocytes will be suitable for 3D culture and creation of spheroid structures while using Cytes protocols.

If you need help for an experiment, just contact us, our experts will be pleased to assist you

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CERTIFICATION:

The viability and performance of the primary human hepatocytes provided depend primarily on the use of appropriate media and reagents, as well as the use of sterile plastics. Likewise, proper handling protocols must be followed. Please note that if these parameters are not carefully considered, the cellular response obtained in the assays may be lower than expected.

Name	Tittle	Signature	Cytes Biotechnologies, S.L.	Date
Pilar Sainz de la Maza	Quality Manager	Flor Jan lend	CYTES BIOTECHHOLOGIES S.L.	24/03/23

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CELL COUNTING

Lot #:		Date	:/_			
MORPHOLOGY						
☐ Clear cytoplasm☐ Clear membranes	☐ Rounded shape ☐ Membrane blebbing	☐ Cell swellin☐ Lipid drople	_	☐ Hardly any debris☐ Prevalent debris		
TRYPAN BLUE COUNTING RESULTS						
		NEURAUER (CHAMBER COUN	TING		
01 02	Quadrant	Live cells +	Dead cells		otal cells	
Q2	Quadrant 1	+	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	=		
	Quadrant 2	+		=		
	Quadrant 3	+		=		
02	Quadrant 4	+		=		
Q3	Total	+		=		
VIABILITY (Live cells) $x100 =$ $Viability$ (%) YIELD (Total cells) x (Dilution factor) x 104 * x (Current volume) ml (Counted quadrants) *This factor (104) is applicable when it is used a Hemocytometer SEEDING DENSITY (Desired number of cells) cells x (Current volume) ml (Total number of cells) (Counted number of cells) (Total number of cells) (Total number of cells) (Counted number of cells) (Total number of cells) (Counted number of cells) (Total number of cells) (Total number of cells) (Cells number of cells) (Total number of cells) (Total number of cells)						

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CYTES BIOTECHNOLOGIES, SL.