

Updated on: 19th October 2023

CERTIFICATE OF ANALYSIS

Lot#: NHF2351-HE-N

PRODUCT DESCRIPTION

Reference: HuHeCP/4- Isolation date: 9th September 2022 Product: Cryopreserved Human Hepatocytes Storage conditions: -196°C using LN₂

Category: Plateable
Spheroid qualified: NO
(see details below: 3D Spheroid formation section)
Sterility test: negative for mycoplasma, bacteria, yeast, and fungi

DONOR DEMOGRAPHICS

Species	Gender	Race	Age	вмі	HLA	Smoker	Alcohol Use	Drug Use	COD
Human	Female	Caucasian	61	25	A02, A11 B13, B35, C04, C06	Yes	Yes	N/A	Diabetes Insipidus

Patient informed consent was obtained. The donor was serologically tested negative for following infectious diseases: HIV, Hepatitis B and C, and syphilis.

CHARACTERIZATION FOR PLATEABLE CELLS

Post Thaw Lot information	Result	SD	N		
Number of viable cells (cells/vial):	2.99x10 ⁶	± 0.39x10 ⁶	2		
Post-thaw viability (%):	78.48	± 3.84	2		
Days in culture after thaw (24w):	4	± 0.00	1		
MONOLAYER ASSESSMENT ¹ Plateable:	YES Confl	uence 24h: 75%			
Seeding density in 24 well recommended:	2.10	2.10x10 ⁵ cells/cm ²			
Cell morphology 24h		Cell morphology 96h			
	So jum		50 unit		

Human hepatocytes were thawed and seeded according to BeCytes Biotechnologies culture protocol. The yield and viability were determined by a trypan blue exclusion assay after the thawing process. ¹Resuspended 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 during the first change of medium on the day of thawing. Maintenance medium was replaced in the culture every day.

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3D SPHEROID FORMATION

Spheroid morphology

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

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

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 Jamber	CYTES BOTECHHOLOGIES S.L.	19/10/23

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CELL COUNTING

Lot #:			Date	::/	<u></u>	
MORPHOLOGY						
☐ Clear cytoplasm☐ Clear membranes	☐ Cell swellin☐ Lipid drople	_	☐ Hardly any debris☐ Prevalent debris			
	TRYPAN BLUE	COUNTING RESU	LTS			
NEUBAUER CHAMBER COUNTING						
01	Quadrant L	ive cells +	Dead cells		Fotal cells	
Q1 Q2	Quadrant 1	+	Dedd tells	=	Total cells	
	Quadrant 2	+		=		
	Quadrant 3	+		=		
	Quadrant 4	+		=		
Q3 Q4	Total	+		=		
SEEDING DENSITY (Desired number of cells) (Total number) Keep in mind the final vo	cells x (Current volume) ber of cells) colume per dish or plate to u	= Bile when it is used a Hem ml =	ocytometer ml (Volu		•	
·	,			`	,	
Surface of the most cor	mmon plates for culture:	Brand	24-well plate	96-well plate		
		ThermoFisher	1.90 cm ² /well	0.32 cm ² /wel		
		Corning® Falcon®	2.00 cm ² /well 1.90 cm ² /well	0.36 cm ² /wel 0.32 cm ² /wel		
		Eppendorf	2.08 cm ² /well	0.37 cm ² /wel		
COMMENTS						

COUNTED BY:

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CYTES BIOTECHNOLOGIES, SL.