

## **CERTIFICATE OF ANALYSIS – DONOR DATA**

ORGAN:	Huma	uman Liver Brain		in Death	DCD	TISSUE ID:		
				DONOR DEM	10GRAPHICS			
Λαο		Sov	,		ace	ВМІ	1	Cause of Death
Age		367	Sex		ace	DIVII	I	Cause of Death
			M	DICAL AND S	OCIAL HISTORY	1		
Medical Histo								
Medication(	s)							
Alcohol								
Tobacco								
Illicit Drug(s	5)							
			LA	BORATORY E	SLOOD RESULTS			
Blood Type					HLA Typing			
				BLOOD CULT	URE RESULTS			
					Organisms if p	ositive		
			IN	FECTIOUS DI	SEASE RESULTS			
The donor was tested and found non-reactive to  HIV-1/2 Hepatitis-B Syphilis Hepatitis-C								
Any other sero	ological te	ests with pos	sitive resu	ılts				
				FINAL LA	B PROFILE			
Total Bili		Direct			AST		ALT	
ТР		Alk Ph	os		PT		PTT	
			AU	THORIZATIO	N RESTRICTIONS	5		
No Y	res, expla	in						
Signature:	D. Walt	tero					Date:	
Print Name:					Title:			
	cells as poten	itial pathogens. V	Vear protecti	ve clothing and ey		priate disposal te	echniques for	oses. Caution: The user should potentially pathogenic or tuse.

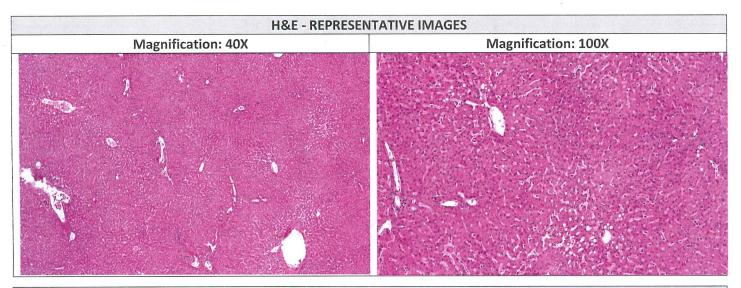
FRCP-0065-01.00

For more information: cells\_tissues@lifenethealth.org



## **CERTIFICATE OF ANALYSIS - HISTOLOGY**

CELL TYPE:	Primary Human Hepatocytes	Lot No:	2019300	
Storage Condition:	Cryopreserved in Vapor Phase Liquid Nitrog	gen (< -150°C)	'	



TRICHROME - REPRESENTATIVE IMAGES				
Magnification: 40X	Magnification: 100X			

	HISTOPATHOLOGICAL SCORING					
NAS Score*	Steatosis Score	Lobular Inflammation Score	Hepatocyte Ballooning Score	Fibrosis Stage		
1	1	0	0	0		

\*NAS scores 0-2 are not considered diagnostic of NASH, scores of 3-4 can be considered diagnostic of NASH with high interobserver variability, and scores of 5-8 are diagnostic of NASH.

Additional Information/Comments:

Mild steatosis (~15-20% of hepatocytes). No excess inflammation or fibrosis.

Signature: Symbol Wolf

Title: Sciences Pro Life Sciences

Authorization was obtained from the donor or the donor's legal next of kin, for use of the tissue and its derivatives for research purposes.

Caution: The user should treat all human cells as potential pathogens. Wear protective clothing and eyewear. Practice appropriate disposal techniques for potentially pathogenic or biohazardous materials. For research use only. Not intended for human or animal therapeutic or diagnostic use.

For more information: cells\_tissues@lifenethealth.org



## **CERTIFICATE OF ANALYSIS**

TISSUE TYPE:	Human Liver	ETHNICITY:	African American	DONOR ID:	2019300
		CYP E	NZYME GENOTYPING		
Gene	rs Number	Result	Allele Freq. ¥	Ref. Allele	cDNA Ref. Seq.
CYP1A2	rs762551	C/C	A=0.5593§	С	c163C>A
CYP2C9	rs1057910	A/A	A=0.9869	Α	c.1075A>C
CYP2C9	rs1799853	C/C	C=0.9639	С	c.430C>T
CYP2C19	rs4244285	G/A	G=0.8253	G	c.681G>A
CYP2C19	rs4986893	G/G	G=0.9996	G	c.636G>A
CYP2C19	rs12248560	C/T	C=0.7730	С	c806C>T
CYP2D6	rs1065852	G/G	G=0.8608	G	g.100C>T
CYP2D6	rs3892097	C/C	C=0.9046	С	c.506-1G>A
CYP2D6	rs5030655	A/A	A=0.9978	Α	c.454del
CYP2D6	rs28371706	G/G	G=0.9125	G	g.1023C>T
CYP2D6	rs28371725	C/C	C=0.9606	С	g.2988G>A
CYP2D6	rs59421388	C/C	C=0.9181	С	c.1012G>A
CYP2D6	rs61736512	C/C	C=0.9176	С	g.1659G>A
CYP3A4	rs2740574	C/C	C=0.6341	C	c392G>A
	N. B. S.	PHASE II AND TRA	NSPORTER ENZYME GEN	NOTYPING	
Gene	rs Number	Result	Allele Freq. ¥	Ref. Allele	cDNA Ref. Seq.
ABCB1	rs1045642	G/G	G=0.7748§	А	c.3435T>C
ABCG2	rs2231142	G/G	G=0.9737	G	c.421C>A
COMT	rs4680	G/A	G=0.69098	G	c.472G>A
MTHFR	rs1801131	T/T	T=0.83006	Т	c.1286A>C
MTHFR	rs1801133	G/G	G=0.87745	G	c.665C>T
SLCO1B1	rs2306283	A/G	G=0.74875§	Α	c.388A>G
SLCO1B1	rs4149056	T/T	T=0.96298	Т	c.521T>C
TPMT	rs1142345	T/T	T=0.9457	T	c.719A>G
TPMT	rs1800460	C/C	C=0.9923	С	c.460G>A
TPMT	rs1800462	C/C	C=0.9997	С	c.626-1G>A
UGT1A1	rs4148323	G/G	G=0.9987	G	c.211G>A

§Alternate allele in database is the reference allele for this ethnicity.

rs1902023

rs28365063

rs9923231

¥ All allele frequencies were taken from the Allele Frequency Aggregator (ALFA) from the National Center for Biotechnology Information.

C/C

A/A

C/C

## **METHOD SUMMARY**

C=0.5782§

A=0.9077

C=0.8899

Genomic DNA was isolated from Primary Human Hepatocytes and sequenced using next generation sequencing, rs numbers and cDNA reference sequence annotations are designations in the National Center for Biotechnology Information's SNP database (Build 154, release date: 04/21/20). Allele frequencies and reference alleles are from the ALFA database (Release 2, date: 01/06/21) for the African American ethnicity unless otherwise noted.

C

c.253T>G

c.372A>G

c.-1639G>A

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UGT2B15

UGT2B7

VKORC1