

**LiverPool™* 10-DONOR FEMALE POOLED CRYOPRESERVED HUMAN
HEPATOCYTES**
PRODUCT NUMBER: FX008001

Lot Number: VEK

Storage Conditions: below -150°C (vapour phase of liquid nitrogen freezer)

Test Results:

<u>Specification</u>	<u>Result</u>
>70% post-thaw viability by trypan blue exclusion	89 %
≥ 5 million viable cells	11.8

Lot Characterization Results:

<u>Assay</u>	<u>Result</u>
ECOD: total rate of formation of 7-HC and metabolites	108 pmol/10 ⁶ cells/min
UGT/ST:	
rate of formation of 7-hydroxycoumarin glucuronide	396 pmol/10 ⁶ cells/min
rate of formation of 7-hydroxycoumarin sulfate	37.4 pmol/10 ⁶ cells/min
CYP1A2: rate of formation of acetaminophen	61.5 pmol/10 ⁶ cells/min
CYP2A6: total rate of formation of 7-HC and metabolites	80.5 pmol/10 ⁶ cells/min
CYP2C9: rate of formation of 4'-methylhydroxytolbutamide	23.7 pmol/10 ⁶ cells/min
CYP2C19: rate of formation of 4'-hydroxymephenytoin	8.24 pmol/10 ⁶ cells/min
CYP2D6: rate of formation of dextrophan	24.4 pmol/10 ⁶ cells/min
CYP2E1: rate of formation of 6-hydroxychlorzoxazone	43.6 pmol/10 ⁶ cells/min
CYP3A4: rate of formation of 6β-hydroxytestosterone	145 pmol/10 ⁶ cells/min

*The process for producing the LiverPool™ pooled human hepatocyte products is covered by one or more U.S. or foreign patents and patent applications, including U.S. Patent No. 7,604,929.

Donor Demographics, as reported to Celsis | In Vitro Technologies:

Age:	Race:	Cause of death:	Height:	Weight:	Social history:	Medical history:	Serology testing:					
							EBV	RPR	CMV	Hepatitis B	Hepatitis C	HIV
27	C	Anoxia; 2nd to shunt malfunction	48"	37 Kg	No ETOH, Tobacco or drug use	Cerebral palsy, blind, mild HTN x 5yrs - med compliant, gallbladder removed	Pos	Neg	Neg	Neg	Neg	Neg
48	C	CVA/ ICH	66"	203LB	No ETOH, Tobacco: 1/2ppd x 33 yrs	Chronic bronchitis, C-section, Cardiac hx - close to heart attack	IgG Pos	Neg	Pos	Neg	Neg	Neg
43	C	Head Trauma; 2nd to MVA	62"	170lb	ETOH: 1 per month; No tobacco; Marijuana in the past	Adrenal and spleen injuries, asthma as a child	Not reported	Neg	Pos	Neg	Neg	Neg

Caution: This product was prepared from fresh human tissue. Treat all products containing human-derived materials as potentially infectious, as no known test methods can offer assurance that products derived from human tissues will not transmit infectious agents.

These products are for research use only. Do not use in animals or humans. These products have not been approved for any diagnostic or clinical procedures.

Age:	Race:	Cause of death:	Height:	Weight:	Social history:	Medical history:	Serology testing:		CMV	Hepatitis B	Hepatitis C	HIV
							EBV	RPR				
77	H	IC Bleed	60"	77 Kg	ETOH: 1-2 beers holidays; Tobacco: 1ppd - quit 20 yrs ago	End stage renal disease x 3yrs, HTN x10yrs, Diabetes -DM x10yrs, hyperlipidemia, renal failure/ insufficiency. Meds: Insulin, norvasc, hydralazine, aspirin, lantus, cozaar, zocor, renagel, lopressor.	Not reported	Neg	Pos	Neg	Neg	Neg
17	C	Head trauma; 2nd to MVA	61"	97 lb	No ETOH, tobacco or drug use	No history provided	Not reported	Neg	Not reported	Neg	Neg	Neg
65	C	CVA	62"	110 lb	No ETOH or drug use; Tobacco: half pack daily x 40 yrs	HTN x 15 yrs - compliant with meds. Legally blind in right eye.	Pos	Neg	Neg	Neg	Neg	Neg
55	C	Anoxic injury; 2nd to Cardiac arrest	64"	104Kg	No ETOH; Tobacco: 1ppd x 35 yrs	IDDM unknown duration, high cholesterol, ME case anemia, chronic obstructive pulmonary disorder, hypertension.	Not reported	Neg	Neg	Neg	Neg	Neg
59	C	CVA; 2nd to ECD donor	63"	94 Kg	No ETOH, tobacco or drug use	ECD donor, HTN x 9 yrs, Hypothyroidism	Not reported	Neg	Pos	Neg	Neg	Neg
60	C	CVA; 2nd to keto-acidosis	64"	98 Kg	No ETOH, tobacco or drug use	Diabetes x 30yrs, insulin 11 yrs	Not reported	Neg	Neg	Neg	Neg	Neg
33	B	ICH	66"	230lb	No ETOH, Tobacco: 2 cigars/day x 9 months, cocaine use in past	Chronic CHF, HTN, end stage renal disease,	Not reported	Neg	Pos	Neg	Neg	Neg

Carolyn P. Watt 23 Dec 10

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