

LIVERPOOL®* Mixed Gender Human Hepatocytes – 50-Donor Pool, Cryopreserved

Product: X008005 | Lot: KDH

Storage: ≤ -150 °C

Post-Thaw Viability and Yield

Specification Results

Viability ≥ 80% post-thaw viability by trypan blue exclusion 87 %

Yield ≥ 5 million viable cells 7.87 million viable cells

Post-thaw viability and yield are an average of samples from the beginning, middle, and end of the production run. All data generated without the use of Percoll.

*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.

Metabolic Activity

Enzyme &	Function	Substrate	Conc. [µM]	Metabolite	Result***
ECOD	7-Ethoxycoumarin O-Deethylation	7-Ethoxycoumarin	75	7-HC, 7-HCG, and 7-HCS**	119
UGT	7-Hydroxycoumarin Glucuronidation	7-Hydroxycoumarin	30	7-HCG	523
ST	7-Hydroxycoumarin Sulfation	7-Hydroxycoumarin	30	7-HCS	39.9
CYP1A2	Phenacetin O-Deethylation	Phenacetin	15	Acetaminophen	26.8
CYP2A6	Coumarin 7-Hydroxylation	Coumarin	8	7-HC, 7-HCG, and 7-HCS	146
CYP2B6	Bupropion Hydroxylation	Bupropion	250	Hydroxybupropion	94.5
CYP2C8	Amodiaquine N-Desethylation	Amodiaquine	20	Desethylamodiaquine	235
CYP2C9	Tolbutamide Methyl-Hydroxylation	Tolbutamide	150	4'-Methylhydroxytolbutamide	48.7
CYP2C19	S-Mephenytoin 4'-Hydroxylation	S-mephenytoin	20	4'-Hydroxymephenytoin	15.8
CYP2D6	Dextromethorphan O-Demethylation	Dextromethorphan	8	Dextrorphan	23.9
CYP2E1	Chlorzoxazone 6-Hydroxylation	Chlorzoxazone	100	6-Hydroxychlorzoxazone	26.3
CYP3A4	Testosterone 6B-Hydroxylation	Testosterone	50	6β-Hydroxytestosterone	203
CYP3A4	Midazolam 1-Hydroxylation	Midazolam	15	1-Hydroxymidazolam	97.3
AO	Aldehyde Oxidase	Carbazeran	10	4-Hydroxycarbazeran	210
UGT1A1	UDP-Glucuronosyltransferase	β-Estradiol	10	β-Estradiol-glucuronide	40.2

^{**7-}Hydroxycoumarin (7-HC), 7-Hydroxycoumarin glucuronide (7-HCG), 7-Hydroxycoumarin sulfate (7-HCS) **Metabolite rate of formation is measured in pmol/min/106 cells

Metabolic assays are run in triplicate. Activity results analyzed by HPLC-UV or LC/MS/MS validated procedures. Metabolite formation for all enzymes, except AO & UGT1A1, is measured after a 60 min. cell incubation at 37°C, 5% CO2 and a final conc. of 1 million cells/mL. Metabolite formation for AO & UGT1A1 is measured after a 15 min. cell incubation at a final concentration of 0.25 million cells/mL

Results for this lot have been derived through validated testing methods and confirmed by Quality Assurance.

Caution: This product was prepared from 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.

This product is being sold for research and/or manufacturing purposes only. The biological samples supplied by BioIVT, or any material isolated from the samples, are for in-vitro research use only and are not to be used as a source of material for clinical therapies. Human material may be used in vivo in animals. The user assumes all responsibility for its usage and disposal, in accordance with all regulations.

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	Donor Demographics, as reported to BioIVT										
Age/	Race	Cause of	BMI	Social History	Medical History	Sei	**				
Gender		Death			•	EBV	RPR	CMV			
		Anoxia dt		No ETOH, tobacco or drug							
1moF	Hispanic	Asphyxiation	16.9	use	No Medical History reported	lgG+	Neg	Pos			
39F	Asian	CNS Tumor 2nd to Natural Causes	22.9	No ETOH, tobacco or drug use.	On and off headaches for 1 year, tremors, difficulty walking, double vision, uterine myoma removal 3-4 yrs ago, fat cyst removal from left breast 4 yrs ago.	lgG+	Neg	Pos			
4M	AA	Anoxia	19.7	No ETOH, tobacco or drug use.	Chronic respiratory failure, trach/vent dependence, static encephalopathy with developmental delay, epilepsy	lgG+	Neg	Pos			
		Cerebro- vascular/ Stroke		uc.	Recent swollen rt leg below knee 3 wks ago, UTI w/high						
35M	Hispanic	2nd to Intracranial Hemorrhage/ Stroke	24.2	ETOH: 5-6 beers 2x/month x 18 yrs; no Tobacco or Drug use. Tox IgG+	fever, difficulty walking, unknown weight lost in last 2 months. Meds: ABX for UTI for 10 days, vitamins. Asthma dx 30 yrs ago - used	lgG+	Neg	Pos			
32M	С	Anoxia 2nd to Cardio-	25.4	ETOH: 2-3 beers, 2- 3x/month x 5 yrs, quit 5 yrs ago; Tobacco: 1ppw x 5 yrs, quit 1 yr ago; Drugs:	inhaler daily, recent admit for SOB. Meds: Xopenex, unspecified meds for depression or bipolar	laG.	Nea	Neg			
32IVI	C	vascular	25.4	used meth last 5-10 yrs ETOH: 1-2 drinks on	disorder.	lgG+	Neg	Neg			
545		0)/4	24.2	occasion; Tobacco: 1/2 ppd since teens - quit 18yrs ago; Drugs: THC >30yrs ago - occasionally/rarely since	Adult onset asthma, anxiety. Meds: inhaler, antianxiety	Not	New	D			
51F	С	CVA	34.2	pregnancy. No IVDA ETOH: three glasses of wine	meds	reported	Neg	Pos			
				daily; no drug or tobacco	HTN occasional, no meds						
58F	С	CVA	26.5	use	taken	lgG+	Neg	Neg			
		Anoxia due to respiratory		No ETOH, tobacco or drug							
11F	Hispanic	failure	27.2	use. ETOH: 3 beers & 1 liquor	No Medical History reported	IgG+	Neg	Neg			
		CVA		drink 1x/week x 30yrs; No	CHF & cardiomyopathy, HTN	Not					
48M	AA	2nd to ICH	29.5	tobacco or drug use	x 10yrs, Diabetes x 10yrs	reported	Neg	Pos			
	6	Head Trauma 2nd to Blunt	04.5	ETOH: Drank all kinds of liquor, alcoholic beverages such as beer, vodka, etc. within last couple of yrs. Unknown amount & frequency; Drugs: Smoked marijuana on and off x	High cholesterol x11yrs, hemochromatosis diagnosed 5 yrs ago, depression 11 yrs ago, genital herpes diagnosed 5						
29M	С	Injury/MVA	26.0	10yrs; no tobacco use ETOH: beer - "a lot" daily;	yrs ago. Meds: None	lgG +	Neg	Pos			
				Tobacco: chew tobacco, smoked cigars; no drug	Cardiac arrest, alcoholism,						
40M	AA	ICH	18.1	use.	cirrhosis (date unknown)	Neg	Neg	Pos			

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	Donor Demographics, as reported to BioIVT									
Age/	Race	Cause of	BMI	Social History	Medical History	Se	**			
Gender		Death		•	•	EBV	RPR	CMV		
53F	С	Anoxia 2nd to Cardiovas- cular	21.0	No ETOH, tobacco or drug use	Asthma, mental disability, epilepsy, petit mal seizures, sx for vagal nerve stimulator, frequent UTIs. Meds: seizure medication and others unknown	lgG+	Neg	Neg		
		Anoxia/		No ETOH, tobacco or drug	No Medical History reported.	J	_	J		
3M	С	drowning	15.5	use ETOH: beer weekly; Tobacco: 1/2 ppd x 30 yrs; Drugs: Smoked marijuana -	HBsAb+. Hemodialysis for ARF, UTI; Paraplegia and colostomy sec. to GSW, obesity, obstructive sleep apnea, dermatophyte infection lower extremities. Meds: Advair, metoprolol, Norco,	Neg	Neg	Neg		
48M	AA	Anoxia	30.6	not since last year	Soma, Lasix, potassium.	IgG+	Neg	Pos		
		Anoxia 2nd to Cardiovas-		No ETOH, tobacco or drug	No Medical History reported.	Not	- 3			
3moF	С	cular	16.0	use	Meds: Vitamin D drops	reported	Neg	Neg		
32M	С	ICH	23.5	ETOH: 1 beer/month x 5 yrs; no tobacco or drug use.	Chronic idiopathic thrombocytopenia, autoimmune hemolytic anemia, splenectomy 9 yrs ago, clotting factors ITP	igG+	Neg	Pos		
		CVA 2nd to vegetation on heart		No ETOH, tobacco or drug	Cardiac defects as infant - cuspid AV, AFD surgically corrected, asthma. Meds: albuterol as needed.	J -	. 3			
5M	AA	valve	17.6	use	HepB NAT neg	IgG +	Neg	Pos		
60F	С	CVA 2nd to keto- acidosis	37.1	No ETOH, tobacco or drug use	Diabetes x 30yrs, insulin for 11 yrs	Not reported	Neg	Neg		
4214	Asian	Other/	24.4	No ETOH, tobacco or drug	Asthma, Diabetes.	laC :	Noa	Dos		
62M	Asian	Natural	26.6	use No ETOH, tobacco or drug	Meds: Insulin	lgG+ Not	Neg	Pos		
11moM	С	Asphyxiation	16.5	use	No Medical History Reported	reported	Neg	Pos		
12moF	Hispanic	Anoxia	14.2	No ETOH, tobacco or drug use	No Medical History Reported	Neg	Neg	Neg		
45F	C	Anoxia 2nd to OD	33.4	ETOH: 1 beer to 1 case/wk on & off since age 18x 27 yrs; Tobacco: 1 cig - 1 ppd x 30 yrs, quit 1 year ago; Drugs: marijuana 1 / month last used 8-10 years ago, cocaine over 3-6 month period 20+ years ago - none since	HTN x 3yrs - compliant, depression, anxiety, hysterectomy, GERD x 3 yrs. MEDS: acid reflux. BP	Not		Pos		
400		Head	33.4	Hone ance	IVIEDS. ACIU TEHUX, DP	reported	Neg	FOS		
2M	С	trauma from MVA	17.3	No ETOH, tobacco or drug use	No Medical History Reported	IgG+	Neg	Pos		
3M	С	MVA	18.4	No ETOH, tobacco or drug	No Medical History Reported	lgG+	Neg	Pos		
JIVI		IVIVA	10.4	use.	No Medical History Reported	igG+	neg	r OS		

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Age/ Gender Race Cause of Death Social History Medical History EBV RPR CMV	Donor Demographics, as reported to BioIVT											
Fig. State Fig. State Fig. State Fig. State		Race	Cause of									
EIOH: 5 drinks on weekends x 24 yrs. Tobacco: 1/2ppd x 24 yrs. quil 3 morths ago; no drug use. 7daysF		6	.,	24.7	yrs; Tobacco: 0.5ppd x 6 yrs; Drugs: used cocaine and crack x 1-2 yrs - last used 1 month ago, used Percocet and pills x 12 yrs, smoked marijuana, smoked	ACL repair 8 yrs ago, umbilical hernia repair at 6 mos old, poor vision with laser surgery correction bilaterally, overdose 10 yrs ago. Meds: Albuterol,						
No ETOH, tobacco or drug Alwk gestation - C-section for fetal bradycardia Neg Neg Pos	41101	C	Anoxia/	24.7	ETOH: 5+ drinks on weekends x 24 yrs; Tobacco: 1/2ppd x 24 yrs,	sii igulali	igG+	Neg	Neg			
TodaysF C Anoxia 13.1 use. for fetal bradycardia Neg Neg Pos Head trauma 2nd to Blunt 10moM AA Injury/MVA 22.7 No ETOH, tobacco or drug use. Tobacco: 1 ppd: 10bacco: 1 ppd: 1	58M	AA	vascular	27.7			lgG+	Neg	Pos			
Head trauma 2nd to Blunt 10moM AA Injury/MVA 22.7 Tobacco 1 gpd; 10mo ETOH, tobacco or drug use. No Medical History Reported 1gG+ Neg Neg Neg CVA/Stroke 2nd to Use. 10mo ETOH, tobacco or drug use. 1	7daysE	C	Anovia	12.1			Noa	Nog	Pos			
10moM AA Injury/MVA 22.7 Tobacco: 1 ppd:	ruaysr		Head trauma 2nd to	13.1		TOI TELAI DIAGYCAIGIA	iveg	iveg	PUS			
Tobacco: 1 ppd:	10moM	ΔА		22.7		No Medical History Reported	laG+	Nea	Pos			
CVA/Stroke 2nd to 2nd t	101110111	700	injuly/iviv/t	22.7		No Wedical History Reported	ige	, teg	. 03			
2nd to ICH/Stroke 21.6	51M	С		31.0	no ETOH and drug use.	COPD, CAD	lgG+	Neg	Neg			
ETOH: 1 beer special occasionally x 15+ years; Drugs: Ecstasy and smoked THC (over 4 year period while in college) - last used 10+ yrs ago: no tobacco use. 57F C Anoxia 25.4 ETOH: Social; Tobacco: exsmoker x 1 yr: no drug use ETOH: 1 beer special occasionally x 15+ years; Drugs: Ecstasy and smoked THC (over 4 year period while in college) - last used 10+ yrs ago: no tobacco use. ETOH: 1 beer special occasionally x 15+ years; Drugs: Ecstasy and smoked THC (over 4 year period while in college) - last used 10+ yrs ago: no tobacco: exsmoker x 1 yr: no drug use ETOH: 1 beer special occasionally x 15+ years; Drugs: EtoH: Social; Tobacco: exsmoker x 1 yr: no drug use ETOH: 1 beer special occasionally x 15+ years; Drugs: EtoH: Social; Tobacco: exsmoker x 1 yr: no drug use ETOH: 1 beer special occasionally x 15+ years; Drugs: EtoH: 1 beer special occasionally x 15+ years; Drugs: EtoH: 1 liter Vodka 7-8 yrs; daily: Tobacco: exsmoker x 1 yr: no drug use ETOH: 1 liter Vodka 7-8 yrs; daily: Tobacco: 2 ppd x 35 yrs: no drug use bioloar, anxiety, hydrocephalus, PE and brain anaurysm, VP shunt, clipping and colling of aneurysm 6 yrs ago. Not reported Pos Cardiac arrest, seizures for several months, hemorrhoids, gestational diabetes last pregnancy (gave birth 5 months ago). Not reported Neg Pos ETOH: nild, many years ago; no tobacco or drug use ETOH: 1 liter Vodka 7-8 yrs daily: Tobacco: 2 ppd x 35 yrs: no drug use. bioloar, anxiety attacks preported Neg Pos ETOH: 3 vodka drinks daily x 5 yrs; no drug use. Seizures, stroke, external lupus on skin, Alzheimer's dx Not reported Neg reported Not reported Neg Pos	405	C	2nd to	21.4	9	10 yrs, gallbladder sx 23 yrs	IaC :	Noa	Doc			
35F C Anoxia 25.4 use. aneurysm 6 yrs ago. Neg Neg Pos ETOH: Social; Tobacco: ex- smoker x 1yr; no drug use Cardiac arrest, seizures for several months, hemorrhoids, gestational diabetes last pregnancy (gave birth 5 months ago). Not Trauma; 2nd to MVA (Semi 48F O T-Bone) 21.0 SIGSW 30.4 C SIGSW 30.4 C SIGSW 30.4 Anoxia, No ETOH; obacco or drug ago; no tobacco or drug use ETOH: a liter Vodka 7- 8 yrs daily; Tobacco: 2 ppd x 40 Virs; no drug use. ETOH: 3 vodka drinks daily x 30 yrs; Tobacco: 1 ppd x 40 Anoxia, No ETOH, tobacco or drug Use aneurysm 6 yrs ago. Neg Neg Pos Not reported reported Pos Cardiac arrest, seizures for several months, hemorrhoids, gestational diabetes last pregnancy (gave birth 5 months ago). Not reported Neg Pos Diverticulitis w/surgery. Donor is Polynesian. reported Neg Pos HTN x 15 yrs w/ meds, bipolar, anxiety attacks Seizures, stroke, external lupus on skin, Alzheimer's dx Not reported Neg					occasionally x 15+ years; Drugs: Ecstasy and smoked THC (over 4 year period while in college) - last used	Medical anorexia, anxiety, hydrocephalus, PE and brain aneurysm, VP shunt,	ŭ .	Ü				
For the content of th	35F	С	Anoxia	25.4			Neg	Neg	Pos			
Cardiac arrest, seizures for several months, hemorrhoids, gestational diabetes last pregnancy No ETOH, tobacco or drug (gave birth 5 months ago). Not Trauma; 2nd to Stroke 33.6 use Meds: multi vitamins reported Neg Pos Hispanic Stroke 33.6 use Meds: multi vitamins reported Neg Pos Trauma; 2nd to Stroke in the ported in t	F 7 F	0	C) / A	27.4		LITALO			D			
Trauma; 2nd to MVA (Semi 48F O T-Bone) 21.0 ETOH: mild, many years ago; no tobacco or drug use Diverticulitis w/surgery. Donor is Polynesian. FETOH: 1 liter Vodka 7- 8 yrs daily; Tobacco: 2 ppd x 35 daily; Tobacco: 2 ppd x 35 daily; Tobacco: 2 ppd x 35 bipolar, anxiety attacks FETOH: 3 vodka drinks daily x Seizures, stroke, external 30 yrs; Tobacco: 1 ppd x 40 lupus on skin, Alzheimer's dx Anoxia, No ETOH, tobacco or drug					No ETOH, tobacco or drug	Cardiac arrest, seizures for several months, hemorrhoids, gestational diabetes last pregnancy (gave birth 5 months ago).	Not					
ETOH: 1 liter Vodka 7- 8 yrs daily; Tobacco: 2 ppd x 35 HTN x 15 yrs w/ meds, Not 52M C SIGSW 30.4 yrs; no drug use. bipolar, anxiety attacks reported Neg Pos ETOH: 3 vodka drinks daily x Seizures, stroke, external 30 yrs; Tobacco: 1 ppd x 40 lupus on skin, Alzheimer's dx Not Not Anoxia, No ETOH, tobacco or drug			2nd to MVA (Semi			Diverticulitis w/surgery.	Not	Ū				
daily; Tobacco: 2 ppd x 35 bipolar, anxiety attacks reported Neg Pos ETOH: 3 vodka drinks daily x 30 yrs; Tobacco: 1 ppd x 40 lupus on skin, Alzheimer's dx Not Not Not Anoxia, No ETOH, tobacco or drug HTN x 15 yrs w/ meds, Not reported Neg Pos Seizures, stroke, external lupus on skin, Alzheimer's dx Not Not reported Neg reported	48F	0	T-Bone)	21.0		Donor is Polynesian.	reported	Neg	Pos			
30 yrs; Tobacco: 1 ppd x 40 lupus on skin, Alzheimer's dx Not Not 68F C ICH 20.5 yrs; no drug use 1 1/2 yrs ago reported Neg reported Anoxia, No ETOH, tobacco or drug	52M	С	SIGSW	30.4	daily; Tobacco: 2 ppd x 35 yrs; no drug use.	bipolar, anxiety attacks		Neg	Pos			
	68F	С		20.5	30 yrs; Tobacco: 1 ppd x 40 yrs; no drug use	lupus on skin, Alzheimer's dx		Neg				
	6daysF	С	Anoxia, Asphyxiation	15.9	No EIOH, tobacco or drug use	No medical history reported	lgG+	Neg	Pos			

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		Do	nor Der	mographics, as reported	I to BioIVT			
Age/	Race	Cause of	BMI	Social History	Medical History	Serology****		
Gender		Death		555.a. r	aeae.e.y	EBV	RPR	CMV
				ETOH: 3 glasses wine QDx50 yrs; Tobacco - quit 25 yrs	Knee replacement, hysterectomy, 5 yrs ago long plane flt-DVT in leg - progressed to PE. Meds:	Not		
71F	С	ICH	45.6	ago ; no drug use	Coumadin, Paxil	reported	Neg	Pos
405		0) (4) (0)	00.4	ETOH: occasionally beer, quit; Tobacco: couple of cigarettes/day since teen,	High cholesterol, bipolar disorder. Meds:			
68F	С	CVA/Stroke	28.6	quit; no drug use.	Atorvastatin, Abilify	IgG+	Neg	Pos
184	0	Anoxia 2nd to Cardiovas-	10 4	No ETOH, tobacco or drug	Anemia, Hydrocephalus at birth (shunt placed), non-traumatic grade 4 IVH at birth, hydronephrosis, Patent Ductus Arteriosus, prematurity, epilepsy, recent ear infection, sore throat/bronchitis - abx and nebulizer x 1wk. Meds:	Nog	Noa	Nog
1M	С	Corobro	19.4	use	Phenobarbital, zofran.	Neg	Neg	Neg
405		Cerebro- vascular/ Stroke	0.4.4	ETOH: 1 beer 3-4x/yr x 20+	No medical history. Meds: Herbs in tea form to			
48F	Hispanic	2nd to ICH	34.4	yrs; no tobacco or drug use ETOH: 12 shots of vodka,	improve circulation	IgG+	Neg	Pos
		Head Trauma 2nd to		beer, hard liquor daily x 40 yrs; Drugs: Cocaine in early 20s and 30s on wkends (again 3 yrs ago), marijuana 1-2 joints on wkend x 20 yrs – quit; no	Severe seizure for last 5 yrs, delusional, hallucinations due to brain injury after fight 5 yrs ago, difficulty walking due to frostbite and poor hygiene. Meds: Unknown			
52M	С	Blunt Injury	18.1	tobacco use.	seizure meds.	lgG+	Neg	Pos
		CVA 2nd to		ETOH: 1 beer/yr adult life;	HTN x 5yrs, DM Type II x 5yrs - not controlled due to pt's diet - unknown if compliant w/meds. Meds: HTN Meds,			
57M	С	ICH	29.4	no tobacco or drug use.	Insulin Metformin	IgG +	Neg	Neg
		CVA			CVA, seizures, anemia, cardiomyopathy, dyslipidemia, Addison's disease, IDDM, gastroparesis, HTN, CRI. Meds: Lasix, Dilantin, Coreg, Lisinopril, Hydrochlorothiazide,			
38F	Hispanic	2nd to Stroke	22.3	No ETOH, tobacco or drug	Nifedipine, Nortriptyline,	Not reported	Neg	Pos
385	пърапіс	Suoke	22.3	use ETOH: Wine up to 3/yr, 1-2 glassed per event; no	Florinef, Reglan Asthma when young (resolved), hypertension (unknown duration), liver disease - chronic hepatitis (moderate, portal and	reported Not	Neg	PUS
58F	Asian	CVA/ICH	31.6	tobacco or drug use.	indication of Fibrosis)	reported	Neg	Neg
		Anoxia 2nd to Cardio-		No ETOH, tobacco or drug				
53F	Hispanic	vascular	33.7	use	HTN, ALS, Cholecystectomy	IgG +	Neg	Pos

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Donor Demographics, as reported to BioIVT									
Age/	Race	Cause of	BMI	Social History	Medical History	Serology****			
Gender		Death				EBV	RPR	CMV	
(A D A	6	CVA	2/ 0	ETOH: 2-4 drinks daily x 20yrs - quit 17 yrs ago; Tobacco: 3/4 ppd x 40 yrs; Drugs: Snorted Meth 2x/daily x 6	Hypertension x 6 yrs with no meds, osteosarcoma at age	la C	Non	Doo	
64M	С	CVA	26.8	yrs - quit 2 yrs ago	6 - surgically removed.	IgG+	Neg	Pos	
45M	AA	CVA/Stroke	25.1	No ETOH, tobacco or drug use	ESRD, MI, stents, TID x 32 yrs, dialysis for past 4 yrs, angioplasty. Meds: Insulin, other meds unknown	lgG+	Neg	Pos	
39M	С	Anoxia 2nd to Drug Intoxication	29.8	ETOH: 6 beers daily x 20 yrs; Tobacco: 2ppd x 25 years; Drugs: recreationally used cocaine and prescription pills.	Smokers cough, cyst above coccyx removed	lgG+	Neg	Neg	
355	6	Anoxia 2nd to	24 E	ETOH: infrequently; Tobacco: 1/2-1 ppd x 19 yrs; Drugs: smoked meth twice in past yr, prescription	Cardia a disagna	laC.	Noa	Dos	
35F	С	OD	26.5	drug abuse	Cardiac disease	lgG+	Neg	Pos	

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As of March 5th, 2018, "BiolVT" will replace the current brand of BioreclamationIVT and those of each of its affiliates and subsidiaries: IVT Holdings Inc., Asterand Bioscience, Inc., Asterand UK Acquisition limited, Asterand US Acquisition Corporation, Labquote.com LLC, ILSBio LLC, Seratials LLC, Sera Laboratories International Ltd., Translational Cell Science LLC, Bioreclamation-IVT India Private Limited, In Vitro Inc., In Vitro GmbH, Qualyst Holdings LLC, Qualyst Transporter Solutions LLC.

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