

***InVitro*CYP™ H-class 25-donor Female Pooled
Human Liver Microsomes, 10 mg**

Product Number: FX008064

Lot Number: ZBB

Storage Conditions: -70°C

Test Results

Specification

20-26 mg/mL protein concentration
≥0.300 nmol/mg total P450 concentration

Result

21.6 mg/mL
0.603 nmol/mg

Lot Characterization Results

Assay

Result

Rate at K_m concentration

ECOD:	total rate of formation of 7-HC and metabolites	396	pmol/min/mg
UGT:	rate of formation of 7-hydroxycoumarin glucuronide	1929	pmol/min/mg
CYP1A2:	rate of formation of acetaminophen	320	pmol/min/mg
CYP2A6:	total rate of formation of 7-HC and metabolites	357	pmol/min/mg
CYP2B6:	rate of formation of hydroxybupropion	698	pmol/min/mg
CYP2C8:	rate of formation of desethylamodiaquine	1536	pmol/min/mg
CYP2C9:	rate of formation of 4'-methylhydroxytolbutamide	199	pmol/min/mg
CYP2C19:	rate of formation of 4'-hydroxymephenytoin	142	pmol/min/mg
CYP2D6:	rate of formation of dextrophan	55.4	pmol/min/mg
CYP2E1:	rate of formation of 6-hydroxychlorzoxazone	465	pmol/min/mg
CYP3A4:			
	rate of formation of 6β-hydroxytestosterone	2216	pmol/min/mg
	rate of formation of 1-hydroxymidazolam	771	pmol/min/mg

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Donor Demographics, as reported to BioreclamationIVT:

Age	Race	Cause of death	Height	Weight	Social history	Medical history	Serology testing					
							EBV	RPR	CMV	Hepatitis B	Hepatitis C	HIV
48	C	CVA/ICH	66	203 lb	No ETOH; Tobacco: 1/2 PPD x 33 yrs; no drug use	Chronic bronchitis, C-section, cardiac hx - close to heart attack. Meds: Advair	IgG +	Neg	Pos	Neg	Neg	Neg
45	C	GSWH; 2nd to homicide	66"	190lb	ETOH: Whiskey, beer weekends socially; Tobacco: 1 ppd x 31yrs; Drugs: smoke meth, used Xanax - both in past 3-5yrs. Marijuana - last time 1 mo ago	No HTN	Neg	Neg	Pos	Neg	Neg	Neg
58	C	CVA	65"	222lb	No ETOH, Tobacco or drug use	HBP x 3-4 yrs, basal cell carcinoma-treated with surgical incision 10 yrs ago - cancer free since, arthritis in knees and lower back, positive GAD autoantibody test. Meds: glucosamine, Lipitor, voltaren	Pos	Neg	Neg	Neg	Neg	Neg
54	C	CVA/ Stroke	66"	123lb	ETOH: 3 glasses wine QD; Tobacco: 1 PPD x 40 yrs; Drugs: IVDA- Heroin in college	Asymptomatic herpes, no HTN, no DM, no cancer	Not reported	Neg	Neg	Neg	Neg	Neg
54	C	Anoxia; 2nd to CPA	66"	76 Kg	ETOH: 1/2 gallon vodka/day on and off x 30yrs; No tobacco use; Drugs: prescription drug abuse - Percocet, benzos, oxycodone, darvocet, did cocaine 15yrs ago	Cardiac arrest, hernia repair 3 mos ago, rhinoplasty x 3, Botox, bipolar, breast implants removed, drug rehab, flu shot, small pox vaccine as child, asthma-nebulizing treatments, MD in eyes 2yrs ago	Pos	Neg	Neg	Neg	Neg	Neg
62	C	Head Trauma/ ICH; 2nd to Fall	64"	64 Kg	No ETOH or drug use; Tobacco: 1ppd x 15yrs ago, quit multiple times (smoke few yrs, quit few years, then smoke again)	Hysterectomy 33yrs ago for uterine cancer, routine follow-up - no recurrence of cancer; femoral bypass; CVA 5 yrs ago, blind right eye from CVA; diagnosed 2 months ago with borderline NIDDM (no meds); shoulder fracture 1yr ago; positive for MRSA on nasal swab	Not reported	Neg	Pos	Neg	Neg	Neg
51	C	CVA	67"	99 Kg	ETOH: 1-2 drinks on occasion; Tobacco: 1/2 ppd since teens - quit 18yrs ago; Drugs: THC >30yrs ago - occasionally/rarely since pregnancy. No IVDA	Adult onset asthma, anxiety. Meds: inhaler, antianxiety meds	Not reported	Neg	Pos	Neg	Neg	Neg

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Age	Race	Cause of death	Height	Weight	Social history	Medical history	EBV	RPR	CMV	Hepatitis B	Hepatitis C	HIV
27	C	Anoxia; 2nd to Drug Overdose	66"	66 Kg	ETOH: 1/5 vodka every 3 months; Tobacco: 1ppd x 12yrs; Drugs: Heroine 3yrs, snorts cocaine, marijuana	NIDDM x 16yrs - insulin dependent; knee replacement 6yrs ago, 3 incisions from breast (fibro adenomas and melanocytic nevus), Pos HPB test few years ago. Meds: Insulin, Clonazepam, Hydroxyzine, Ambien, Depakote, Viibryd, Ziprasidone	Not reported	Neg	Pos	Neg	Neg	Neg
20	C	CVA/ Stroke	5'4"	57.8Kg	ETOH: Occasional beer/wine cooler; Tobacco: 1ppd x 5yrs - quit past 2 months; no drug use	No medical history reported	Not reported	Not reported	Neg	Neg	Neg	Neg
77	C	Stroke/ ICH	4'11"	150lb	ETOH: Socially - 1 glass of wine/month; no Tobacco or drug use	No medical history reported	Not reported	Neg	Pos	Neg	Neg	Neg
45	C	Anoxia	5'4"	124lb	ETOH: heavy; no tobacco or drug use	No medical history reported	IgG+	Neg	Pos	Neg	Neg	Neg
77	C	Stroke/ ICH	4'11"	150 lb	ETOH: socially, 1 glass of wine/month; no tobacco or drug use	No medical history reported	Not reported	Neg	Pos	Neg	Neg	Neg
71	C	Anoxia/ Cardiovascular	5'1"	152 lbs	Tobacco: amt/type not reported; no ETOH and drug use.	Asthma/Bronchitis, HTN x 20 yrs, Basal cell Squamous	IgG+	Neg	Pos	Neg	Neg	Neg
45	C	Overdose	5'7"	92.3 kg	ETOH: 1 pint of liquor every 4 mos ; Tobacco: 1/2 ppd x 13yrs, quit 1 yr ago.; Drugs: IVDA x 2 yrs, cocaine and marijuana x 6 mos.	HTN x 5 yrs, Diabetes x 10 yrs.	IgG+	Neg	Neg	Neg	Neg	Neg
48	C	CVA	5'5"	62 Kg	ETOH: 4-5 glasses wine weekly x 10yrs; no tobacco or drug use.	small chance of cancer due to follicular cells in thyroid	IgG+	Neg	Pos	Neg	Neg	Neg
56	C	CVA	59"	53kg	ETOH: Vodka occasionally; no tobacco or drug use.	HTN 5+ years.	IgG+	Neg	Pos	Neg	Neg	Neg

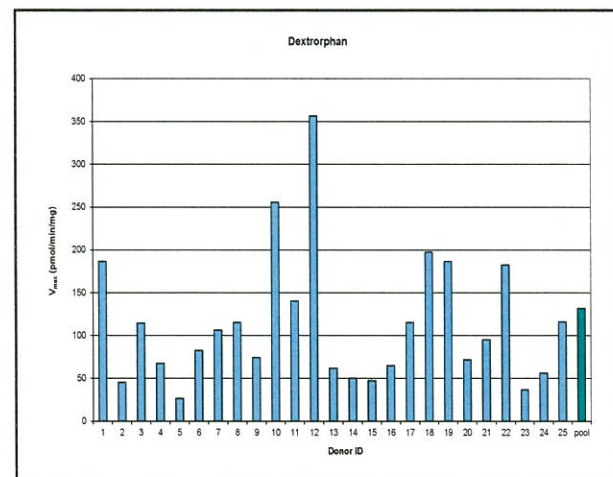
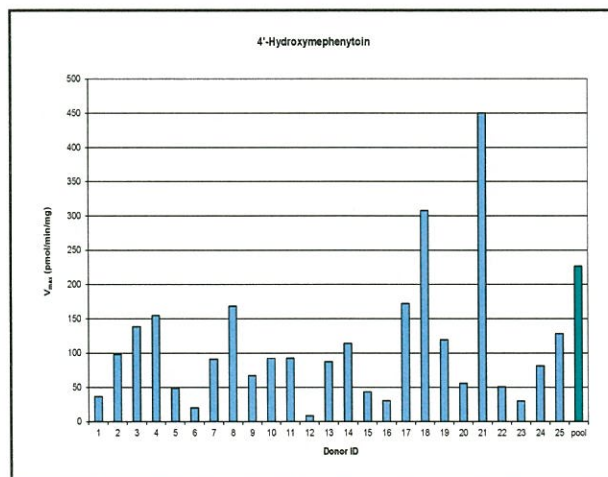
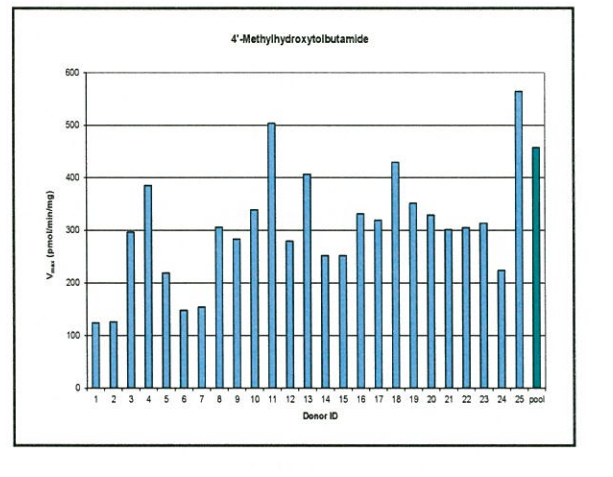
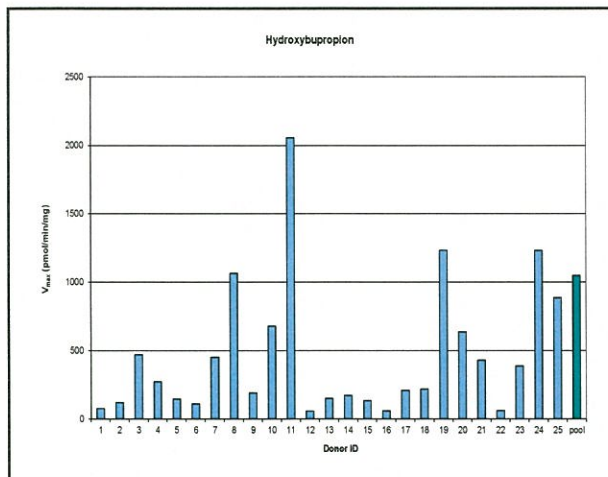
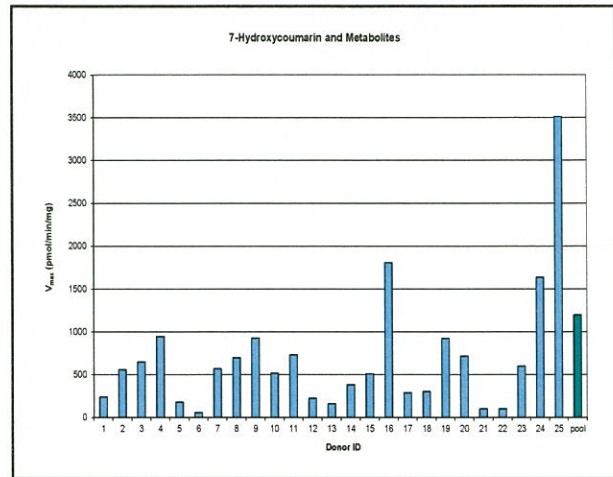
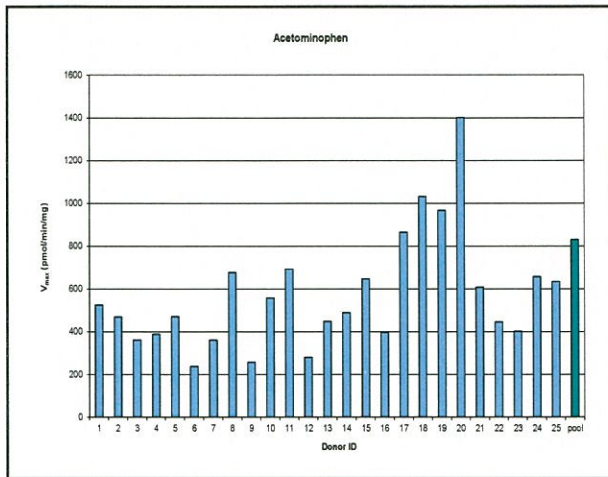
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51	C	Anoxia; 2 nd to Cardio-vascular	48"	50.9Kg	No ETOH, Tobacco or drug use	Hypertension x 5yrs, no Diabetes - A1C 6.6	Neg	Neg	Neg	Neg	Neg	Neg
42	C	Head Trauma, Bicycle vs Auto	65"	76kg	ETOH: yes - unknown amount or duration; Drug: Marijuana unk duration; no tobacco use.	No medical history reported	IgG+	Neg	Pos	Neg	Neg	Neg
57	H	Head Trauma/ MVA	60"	74kg	ETOH: Occasional wine, 1-2 glasses; no tobacco or drug use	No medical history reported	IgG+	Neg	Neg	Neg	Neg	Neg
39	A	Head Trauma/ MVA	66"	49.8kg	ETOH: 1 beer daily x 15 years; Drugs: Positive for marijuana on admission; no tobacco use.	Asthma (unknown duration)	IgG+	Neg	Pos	Neg	Neg	Neg
51	C	Anoxia/CPA	66"	43kg	ETOH: Wine Socially; No tobacco or drug use	No medical history reported	IgG+	Neg	Pos	Neg	Neg	Neg
57	C	Anoxia/Cardiac	167cm	111kg	No ETOH, tobacco, or drug use	Hypertension and diabetes - duration unknown	Not reported	Neg	Neg	Neg	Neg	Neg
57	C	Natural Causes; 2 nd to respiratory failure	175cm	93.3kg	ETOH: 1-2 drinks a year x 15 years, Tobacco: smoked 1-5 cig/day x 1 year, quit 35 yrs ago; no drug use	ARDS (unknown duration), HBP x 10 years	Not reported	Neg	Neg	Neg	Neg	Neg
55	C	Anoxia/Natural Causes/accident non MVA	155cm	97.9kg	ETOH: 1-2 drinks per week x 30+ yrs; tobacco: less than 1ppd x 10 yrs; no drug use	HTN x 20 years	IgG+	Not reported	Pos	Neg	Neg	Neg
21	H	Anoxia/CVA	167cm	76kg	ETOH: 1 beer or 2 vodka drinks once every two months x 1yr; Tobacco: 1.5 ppd x 2 years; Drugs: Smoked amphetamine, marijuana, and snorted cocaine	Asthma (unknown duration)	IgG+	Neg	Neg	Neg	Neg	Neg

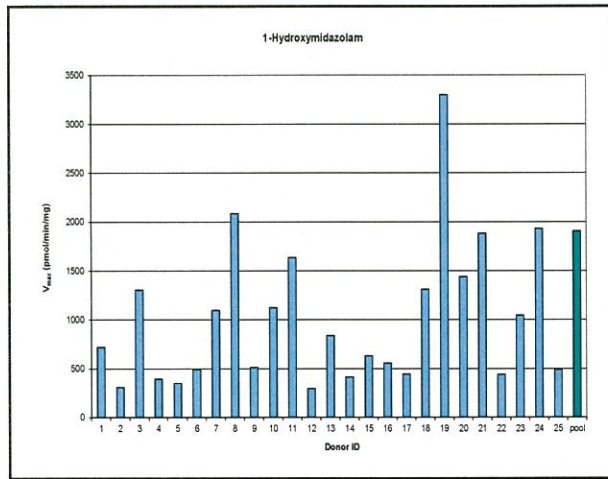
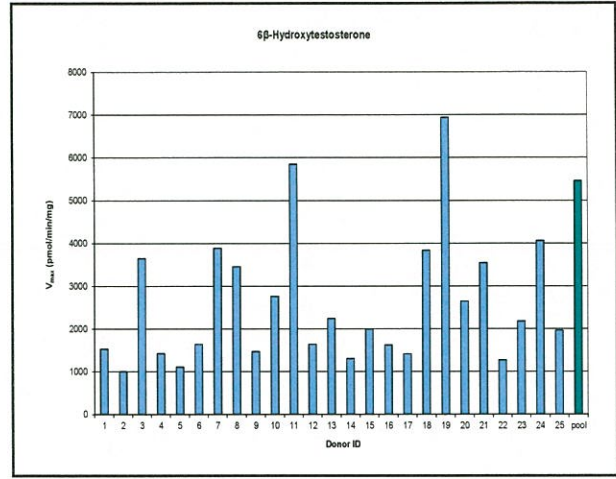
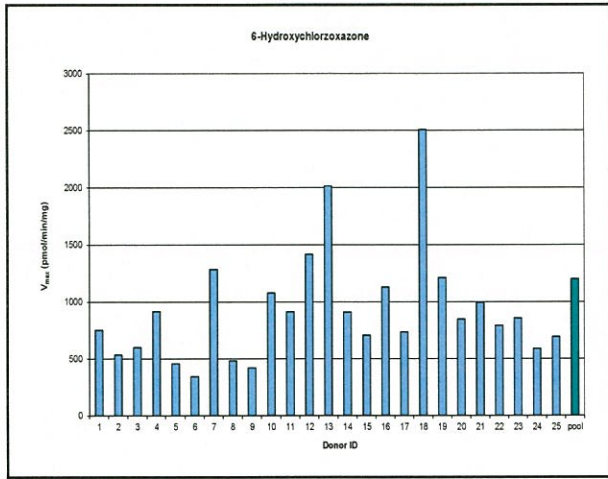
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