

POOLED FEMALE HUMAN LIVER MICROSOMES

Catalog Number.....452183

Storage Conditions..STORE AT -80°C

Lot Number.....[5061002]

Date Released2015 March

Expiration Date.....2025 March

Package Contents.....0.5 ml

Protein Content.....20 mg/ml in 250 mM sucrose

Assay Results

Enzyme Measured	Assay	Enzyme Activity [in pmol/(mg x min)]
Total P450	Omura and Sato	320 pmole/mg
OR	Cytochrome c Reductase	260
Cyt. b ₅	Spectrophotometric	430 pmole/mg
CYP1A2	Phenacetin O-deethylase	680
CYP2A6	Coumarin 7-hydroxylase	910
CYP2B6	(S)-Mephenytoin N-demethylase	70
CYP2C8	Paclitaxel 6 α -hydroxylase	82
CYP2C9	Diclofenac 4'-hydroxylase	2600
CYP2C19	(S)-Mephenytoin 4'-hydroxylase	59
CYP2D6	Bufuralol 1'-hydroxylase (The amount of activity inhibited by 1 μ M quinidine.)	70
CYP2E1	Chlorzoxazone 6-hydroxylase	1300
CYP3A4	Testosterone 6 β -hydroxylase	6600
CYP4A11	Lauric acid 12-hydroxylase	960
FMO	Methyl p-Tolyl Sulfide Oxidase	2300
UGT1A1	Estradiol 3-Glucuronidation	1200
UGT1A4	Trifluoperazine Glucuronidation	570
UGT1A9	Propofol Glucuronidation	2400

- Pool is comprised of 5% each specimen [HFC759, HFC824, HFC88, HFC91, HFC701, HFC730, HFC737, HFC755, HFC613, HFC650, HFC665, HFC696, HFC173, HFC194, HFC279, HFC553, HFAA103, HFAA18, HFC114, HFC165] and 3% of HFH500.
- All cytochrome P450 assays conducted at 0.8mg/ml protein (except CYP3A4 which was at 0.5 mg/ml) with an NADPH generating system (1.3 mM NADP, 3.3 mM glucose 6-phosphate and 0.4 U/ml glucose 6-phosphate dehydrogenase), 3.3 mM MgCl₂, and incubated for 20 minutes or 10 minutes (CYP2C8, CYP2C9, CYP3A4 and CYP4A). 0.1 M Potassium phosphate buffer (pH 7.4) was used for all P450 enzymes except CYP2B6 and CYP2C19 (0.05 M) and CYP2A6, CYP2C9 and CYP4A which used 0.1 M Tris (pH 7.5). The FMO assay was conducted in the same volume and protein concentration in 0.05 M glycine buffer (pH 9.5) with the same NADPH generating system, 3.3 mM MgCl₂, 1.2 mM diethylenetriaminepentaacetic acid, 0.5 mg/ml Triton X-100 and incubated for 10 minutes. All UGT Glucuronidation assays contained 0.5mg/ml protein (except UGT1A9 which was at 0.15 mg/ml), 2 mM UDPGA, 10 mM MgCl₂, 25 ug/ml Alamethicin in 50 mM Tris-HCl buffer (pH 7.5). UGT1A1 was incubated for 30 minutes, 1A4 for 20 minutes, and 1A9 for 10 minutes. Activities expressed as pmole product per (mg protein x minute) except cytochrome c reductase which is expressed as nmole product per (mg protein x minute)
- These materials have tested negative for HIV, HTLV and hepatitis.
- Donors with positive serology for CMV are identified in the donor demographic sheet with a single asterisk. Donors with CMV serology unknown are identified with a double asterisk. Donors CMV negative for serology are unmarked.

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Donor Information

Specimen	HFH500*	HFC759	HFC824	HFC88*	HFC91**
Gender	Female	Female	Female	Female	Female
Age	54 years	60 years	40 years	33 years	55 years
Race	Hispanic	Caucasian	Caucasian	Caucasian	Caucasian
Cause of Death	Subarachnoid Hemorrhage.	Cerebrovascular Accident, Intracranial hemorrhage	SAH s/p MVA	Found down in bath tub.	Cerebrovascular.
Social History	Non-smoker, moderate drinker 3-4 glasses per day.	Tobacco use: Quit 1990, prior 1 1/2 -2 PPD since 16 years old.	Social alcohol.	Not available.	Not available.
Medical History	Treated for hypertension.	Frequent gastritis, Arthritis: Shoulders hip and back, A fib, Tonsil cancer 1992; radiation/ no chemo, Tonsillectomy, Hysterectomy, Colectomy, carotid endact. Burch procedure 1996/7, blood transfusions, Betapage, Nitrobid, Kdur, Plavix, Lipitor, allergic to sulfa.	Frequent UTIs, 4 C sections, tonsillectomy as a child, venereal warts >20 years ago, Metabolife for weight loss, lost 70-80 lbs. since 2001 with exercise, biopsy notes clear cell carcinoma in left kidney.	Not available.	Healthy.
Medication given during Hospitalization	Dopamine, Decadron, Nipride, Vasotec, Procardia.	Dopamine, Pitressin, Vancomycin, Levoquin, Maxipine, Heparin, Hydrocortisone, D5W, Ancef, Clindomycin.	Heparin, Cefazolin, KCl, Dopamine, crystalloids, albumin, CaGI, Vasopressin, T4, Lasix, Kefzol.	Not available.	Not available.

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Donor Information

Specimen	HFC701*	HFC730*	HFC737*	HFC755*	HFC613*
Gender	Female	Female	Female	Female	Female
Age	68 years	55 years	77 years	42 years	33 years
Race	Caucasian	Caucasian	Caucasian	Caucasian	Caucasian
Cause of Death	Subarachnoid hemorrhage.	Cardiac arrest s/p pulmonary embolism.	Cerebrovascular Accident.	SDH, Cerebrovascular Accident, s/p aneurysm.	Anoxia. S/P seizure.
Social History	1 1/2 PPD x50 years; occasional drink.	Normal.	Non-smoker, occasional glass of wine or beer.	1 1/2 PPD x20 years, social alcohol.	Social alcohol.
Medical History	Asthma, emphysema, x10-15 years, skin cancer, 35 years prior, NIDDM, x15 years, hypertension, x6-10 years, controlled by diet, hysterectomy 40 years prior, possibly for cancer, appendectomy, hemorrhoids, HCTZ, Hismanal, Albuterol, Phenobarbital, Premarin, Tagamet, Theodur, Cimitine, KCl, ASA.	Asthma, treated with inhalers. Seizures 20 years ago for several years, D&C 6 months ago for abnormal uterine bleeding, C section, arthritis, knee problems, knee surgery 4 days prior to admission, hemorrhoids, Progesterone, Zolof, Pneumonia on admission, allergic to penicillin.	Choliapertomy 30 years ago, daily meds – Denvasc. Broken foot 1958.	Hysterectomy to resolve endometriosis. Possible hypertension. Migraines x3 years. Fiorinal, Imitrex. On this admission, craniotomy.	Diabetes-noncompliant with insulin for last 6 months, Glyburide sporadically, Hypertension, Obesity, Appendectomy 1977. Chronic poor health. Ovary infarcted (tube twisted). Digestive problems associated with headaches. Otitis inflammation. ASA. Keflex for recent ear infection. Allergic to strawberries.
Medication given during Hospitalization	Heparin, Dopamine, Vasopressin, Kphos, KCl, insulin, Dobutamine, Norcuron, blood products, colloids.	Dopamine, Neosynephrine, Heparin, T4, Digoxin, DDAVP, TPA, blood products, crystalloids, albumin.	Decadron, Pepcid, Lasix.	Heparin, Mannitol, Solumedrol, Dopamine, Prostaglandin, Phenergan, Compazine, Decadron, Pepcid, Cerebyx, DDAVP, Rocephan, Hespan, Pitressin, D50.	Heparin, Mannitol, Dopamine, Dobutamine, Narcan, Dilantin, Cigforan, Ampicillin/Sulbactrim, Verapamil, Lasix, albumin, crystalloids, colloids.

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Donor Information

Specimen	HFC650*	HFC665	HFC696*	HFC173*	HFC194
Gender	Female	Female	Female	Female	Female
Age	58 years	64 years	45 years	46 years	50 years
Race	Caucasian	Caucasian	Caucasian	Caucasian	Caucasian
Cause of Death	Cerebrovascular Accident, Intracranial Bleed s/p Aneurysm	Cerebrovascular accident, Intracranial hemorrhage.	Closed head injury s/p motor vehicle accident.	CVA.	CVA, ICH.
Social History	1 PPD x45 years, Social alcohol.	Normal, Tobacco use: 1 PPD x50 years, quit 2 years prior	Normal	Tobacco (1/2 pack/day x 25 years), Alcohol use, and Marijuana use (once per week).	Rare drinker.
Medical History	Hypertension. High cholesterol. Benign bilat breast biopsies. Peptic ulcer late 70s. Arthritis in feet, knee stiffness s/p MVA 1983. Beroca Plus, Tylenol with codeine, Zantac, Tenoretic, Vasotec, Zocor. Asbestos exposure 10 years ago.	Early stage emphysema, 5/96. CHF from pneumonia, 5/96, treated with Lanoxin for atrial fib. Diabetes x10 years, controlled with Glucator (oral); 5/96 became IDDM, hypertension x19 years, diverticulitis. Hysterectomy: 1965, cholecystectomy, 1976, Lasix, Tegretol, MicroK, Chlorprompemde.	Jaundice 15 years ago, malaria 15 years ago, contracted s/p transfusion while treating jaundice, recurrence 7 years ago, hysterectomy 10 years ago, tetanus shots 16 years ago to treat animal bites, kidney stones 1 year ago, benign skin lesions removed from face >1 year ago.	Squamous cell carcinoma, Appendectomy, Tonsillectomy, Adenoidectomy.	Took Zolof, Ibuprofen, birth control pills; poorly controlled hypertension – non-med compliant 5yrs, Vicodin for recent shoulder issues, C-section in 1981.
Medication given during Hospitalization	Heparin, Solumedrol, Regitine, Neosynephrine, Dopamine, Mannitol, Ancef, Zantac, MgSO4, CaGluconate, Dilantin, Albumin, Crystalloids.	Heparin, Dopamine, D5, Nipride, Ancef, Lasix, Crystalloids.	Dopamine, Pitressin, DDAVP, Lidocaine, Folic acid, Selenium, Cenolate, Solumedrol, Mannitol, Heparin, CaGI, blood products.	Nicardepine, Labetalol, Tylenol.	Heparin, Levothyroxine, Lasix, D50W, Reg insulin, Solumedrol, Narcan, Zosyn.

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Donor Information

Specimen	HFC279*	HFC553*	HFAA103**	HFAA18	HFC114**
Gender	Female	Female	Female	Female	Female
Age	75 years	68 years	54 years	78 years	65 years
Race	Caucasian	Caucasian	African American	African American	Caucasian
Cause of Death	CVA-Stroke.	SDH, Intracranial hemorrhage, Subarachnoid hemorrhage s/p fall.	Cerebral Vascular Aneurysm.	CVA	Brain Infarct.
Social History	None.	Tobacco use: 1 PPD x55 years; Psychiatric facility for 2 weeks 3-4 years ago.	None.	Tobacco use.	Quit smoking in 1981, Snuff since 1982, Quit drinking in 1981.
Medical History	Hypertension: Diagnosed 15 years ago. Compliant with meds. ASA, Quinapril, Simvastatin, and Atenolol (as per NOK).	Emphysema, chest pain in last year, osteoporosis, arthritis in hands, hysterectomy, cholecystectomy, leg vein stripping, bladder infection 12/94, chronic diarrhea, diverticulitis, lactose intolerant, bleeding ulcer 10 years prior. Clonipin, Doxepin, Premarin, Valproic Acid, Darvocet, Lithium, Questran. Allergic to penicillin and Bactrim.	Asthma.	Hypertension, NIDDM, Asthma, Arthritis.	Lotensin, Norvase, Toprol, Glucophage.
Medication given during Hospitalization	Dopamine, Levophed, IV Fluids, Solumedrol, T4, Antihypertensives, Insulin, and Ancef (administered in hospital).	Mannitol, Pitressin, KCl, Dopamine, Neosynephrine, Nipride, Magnesium phosphate, Cardizem, Zantac, Atropine, Ancef, Valium, Tylenol, NS, crystalloids, colloids.	Ventolin.	Insulin, Zantac.	Dopamine, Insulin Drip, Nipride.

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Donor Information

Specimen	HFC165
Gender	Female
Age	70 years
Race	Caucasian
Cause of Death	ICH.
Social History	No drug or alcohol use, no tobacco use since 1985.
Medical History	HTN Synthroid, Lasix, Toprol, protonix, Diclofenac, Fluoxetine, Felodipine, Hyzaar.
Medication given during Hospitalization	Heparin, Fentanyl.

HAZARD WARNING:

This microsome preparation was prepared from freshly frozen human tissues. These materials have tested negative for HIV, HTLV and hepatitis. However, we recommend that this material be considered a potential biohazard.]

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