

## HUMAN LIVER MICROSOMES FEMALE POOL

**Catalog Number**.....452183                      **Storage Conditions**..STORE AT -80°C  
**Lot Number** .....9274001                      **Date Released** .....2020 March  
**Package Contents**.....0.5 mL  
**Protein Content**.....20 mg/mL in 250 mM sucrose  
**Enzyme Assay Results**

Enzyme Measured	Assay	Enzyme Activity [in pmol/(mg x min)]
Total P450	Omura and Sato	400 pmol/mg
OR	Cytochrome c Reductase	330 nmol/(mg x min)
Cytochrome b <sub>5</sub>	Spectrophotometric	660 pmol/mg
CYP1A2	Phenacetin O-deethylase	730
CYP2A6	Coumarin 7-hydroxylase	1000
CYP2B6	Bupropion hydroxylase	590
CYP2C8	Paclitaxel 6 $\alpha$ -hydroxylase	130
CYP2C9	Diclofenac 4'-hydroxylase	4000
CYP2C19	(S)-Mephenytoin 4'-hydroxylase	70
CYP2D6	Bufuralol 1'-hydroxylase (The amount of activity inhibited by 1 $\mu$ M quinidine.)	71
CYP2E1	Chlorzoxazone 6-hydroxylase	2200
CYP3A4	Testosterone 6 $\beta$ -hydroxylase	6500
CYP4A11	Lauric acid 12-hydroxylase	1100
FMO	Methyl p-Tolyl Sulfide Oxidase	1900
UGT1A1	Estradiol 3-Glucuronidation	1200
UGT1A4	Trifluoperazine N- Glucuronidation	700
UGT1A9	Propofol Glucuronidation	3500

- Pool is comprised of HFAA18, HFC114, HFC173, HFC513, HFC551, HFC553, HFC737, HFC756, HFC759, HFC82, HFC88, HFPC776, HFNAP806
- All cytochrome P450 assays were conducted at 0.8 mg/mL protein (except CYP2B6 which was at 0.1 mg/mL, CYP2C19 which was at 0.3 mg/mL, and CYP3A4 which was at 0.5 mg/mL) with a NADPH generating system (1.3 mM NADP, 3.3 mM glucose 6-phosphate, 3.3 mM MgCl<sub>2</sub>, and 0.4 U/mL glucose 6-phosphate dehydrogenase) and incubated for 20 minutes (except CYP2B6 which was incubated for 5 minutes and CYP2C8, CYP2C9, CYP2C19, CYP3A4 and CYP4A11 which were incubated for 10 minutes). 0.1 M Potassium phosphate buffer, pH 7.4 was used for all P450 enzymes (except 0.5 M Potassium phosphate buffer, pH 7.4 was used for CYP2B6 and CYP2C19 and 0.1 M Tris buffer, pH 7.5 was used for CYP2A6, CYP2C9 and CYP4A11). The FMO assay was conducted at 0.8 mg/mL protein with the same NADPH generating system, 1.2 mM diethylenetriaminepentacetic acid, 0.5 mg/mL Triton X-100 in 0.05 M glycine buffer, pH 9.5 and was incubated for 10 minutes. All UGT Glucuronidation assays were conducted at 0.5 mg/mL protein (except UGT1A9 which was at 0.15 mg/mL) with 2 mM UDPGA, 10 mM MgCl<sub>2</sub>, and 25  $\mu$ g/mL Alamethicin in 0.1 M Tris buffer, pH 7.5. UGT1A1 was incubated for 30 minutes, UGT1A4 for 20 minutes, and UGT1A9 for 10 minutes.
- Activities expressed as pmol product per mg protein x minute (except cytochrome c reductase which is expressed as nmole product per mg protein x minute).
- **BIOHAZARD WARNING:** This microsome preparation was prepared from freshly frozen human tissues. All donor tissues have tested negative for pathogens by PCR for the following: HIV I/II, HTLV I/II, CMV, HBV and HCV, however, we recommend that this material be considered a potential biohazard.
- 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	Gender	Age (years)	Race	Cause of Death	Social History	Medical History	Medication given during Hospitalization
*HFC114	Female	65	C	Brain Infarc.	Quit smoking in 1981, Snuff since 1982, Quit drinking in 1981.	Diabetes; oral meds. Hypertension; Diagnosed 5-6 yrs ago. Umbilical hernia repair. Appenol. Bladder surger. Lotensin, Norvase, Toprol, Glucophage.	Dopamine, Insulin Drip, Nipride
HFC173	Female	46	C	CVA	Tobacco: 1/2 PPD x 25 yrs, Alcohol use and Marijuana use (once per week).	Squamous cell carcinoma, Appendectomy, Tosillectomy, Adenoicectomy/	Nicardepine, Labetolol, Tylenol.
HFAA18	Female	78	AA	CVA	Tobacco use.	Hypertension, NIDDM, Asthma, Arthritis	Insulin, Zantac
*HFC513	Female	42	C	Intracranial Bleed	Marijuana, crack, Valium.	Hypertension x4 years. Knee surgery, bilateral. Heartburn. Allergic to Codeine, penicillin; chemical and seasonal allergies. Motrin, Valium, thyroid med, possibly antihypertensive.	Nitroprusside, Procardia, Tylenol, Atenolol, Ceftriaxone, Dopamine, Rocephin, Nipride, Zantac, Decadron, Nimesipine, Nifedopine, Brevitol.
HFC551	Female	28	C	Spontaneous cerebral bleed	Possible marijuana as teen. Smoker and drinker (1 pint Vodka/day 3-4 yrs), was in alcohol detox 4-5/95	AVM seizures '91, AVM repair. Daily meds Tegretol since '91.	Dopamine, Mannitol, Decadron, Dilantin, Ancef, Pepcid, Pitressin, Blood Products, Crystalloids
*HFC553	Female	68	C	SDH, Intracranial hemorrhage, Subarachnoid hemorrhage s/p fall	Psychiatric facility for 2 weeks 3-4 years ago.	Emphysema. Chest pain in last year. Osteoporosis. Arthritis in hands. Hysterectomy. Cholecystectomy. Leg vein stripping Recent bladder infection 12/94. Chronic diarrhea. Diverticulitis. Lactose intolerant. Bleeding ulcer 10 years ago. Clonipin, Doxepin, Premarin, Valproic Acid, Darvocet, Lithium, Questran. Allergic to penicillin and Bactrim.	Mannitol, Pitressin, KCl, Dopamine, Neosynphrine, Nipride, MgPhos, Cardizem, Zantac, Atropine, Ancef, Valium, Tylenol, NS, crystalloids, colloid.
*HFC737	Female	77	C	Cerebrovascular Accident	Non-smoker, occasional glass of wine or beer.	Broken foot 1958. Choliaptectomy 30 yrs ago. Daily meds Denvasc, Digoxin, Ecolrin, Premarin	decadron, Pepcid, Lasix
*HFC756	Female	44	C	Closed head injury s/p motor cycle accident	Very occasional beer, tattoos.	Hypertension x1 year, treated with meds, tubal ligation 1997.	Heparin, Dopamine, Codeine, Epinephrine, Pepcid, Mannitol, Levophed, Rocuronium, Dobutamine.

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## Donor Information

Specimen	Gender	Age (years)	Race	Cause of Death	Social History	Medical History	Medication given during Hospitalization
HFC759	Female	60	C	Cerebrovascular Accident, Intracranial hemorrhage	Normal.	Frequent gastritis. Arthritis, shoulders, hip and back. Afib. Tonsil cancer 1992; radiation, no chemo. Tonsillectomy, hysterectomy, cholecystomy, carotid endact. Burch procedure 1996/7, blood transfusions. Betapage, Nitrobid, Kdur, Plavix, Lipitor. Allergic to sulfa.	Dopamine, Pitressin, Vancomycin, Levoquin, Maxipine, Heparin, Hydrocortisone, D5W, Ancef, Clindamycin.
*HFCP776	Female	7	C	Head trauma s/p being kicked by horse	Non-smoker; Non-drinker	Chicken pox '94. Spider bite 2000. Asthma used occasional inhaler.	Epinephrine, Fosphenytoin, Tylenol, Mannitol, Ampicillin, Arenromycin, Zantac, vecuronium, DDAVP, Dopamine, KCl, Magnesium, Insulin, Ancef
HFNAP806	Female	3	Native American according to OPO sheet T-cubed	Anoxia s/p smoke inhalation	Normal.	Healthy	Heparin, Mannitol, Lasix, NaBicarb, Solumedrol, Decadron, Dopamine, Dobutamine, HCO3, K+, insulin, DDAVP, Narcan, Rocephin, Versed
HFC82	Female	61	C	Intracranial Bleed	Not available.	Hypertension; non-compliant w/ meds.	Not available
HFC88	Female	16	C	Head Injury	Not available.	Healthy normal.	Not available

**Safety Information:**

Chemical hazard assessment indicates this product is not hazardous, therefore no SDS (Safety Data Sheet) is provided.

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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. All persons handling human-derived materials must use Universal Precautions in accordance with the US OSHA Bloodborne Pathogens Final Standard and/or the European Council Directive on the protection of workers from risks related to exposure to biological agents at work (90/679/EEC) and it's relevant European National Transpositions.



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Quality Assurance

05 Mar 2020  
Date