

XTreme 200 Lot No. 1910095

Human Liver S9 Fraction Mixed Gender, Pool of 200 Suspension medium: 50 mM Tris-HCI, 150 mM KCI, 2 mM EDTA H2610.S90.5 mL at 20 mg/mLH2620.S91.0 mL at 20 mg/mLH2630.S95.0 mL at 20 mg/mLH2640.S950.0 mL at 20 mg/mL

Specific Cont	ent and Enzyme Activities	Content / Rate	
Cytochrome P		(nmol/mg protein)	0.178
Cytochrome be		(nmol/mg protein)	0.066
7-Ethoxycoumarin O-dealkylation		(pmol/mg protein/min)	163 ± 9
Glucuronidation of 4-methylumbelliferone		(nmol/mg protein/min)	28.3 ± 2.2
CDNB ^a		(nmol/mg protein/min)	424 ± 32
Phthalazine oxidation		(pmol/mg protein/min)	1150 ± 70
Enzyme CYP1A2 CYP2A6 CYP2B6 CYP2C8 CYP2C9 CYP2C19 CYP2C19 CYP2D6 CYP2E1 CYP2A4/5	Marker Substrate Reaction Phenacetin O-dealkylation Coumarin 7-hydroxylation Bupropion hydroxylation Amodiaquine <i>N</i> -dealkylation Diclofenac 4'-hydroxylation S-Mephenytoin 4'-hydroxylation Dextromethorphan O-demethy Chlorzoxazone 6-hydroxylation	80 50 20 100 n 400 lation 80 n 500	Rate (pmol/mg protein/min) 135 ± 13 314 ± 2 114 446 ± 19 526 ± 4 27.5 ± 2.6 60.1 ± 2.3 406 ± 35 795 ± 47
CYP3A4/5	Testosterone 6β-hydroxylation	250	795 ± 47
CYP3A4/5	Midazolam 1'-hydroxylation	30	158 ± 1
CYP4A11	Lauric acid 12-hydroxylation	100	318 ± 18

^a 1-Chloro-2,4-dinitrobenzene-glutathione conjugation by glutathione S-transferase.

Values for enzyme activities were determined at a single substrate concentration and are mean ± standard deviation of three or more determinations.

Each donor is equally represented in this pool.



Store at -80°C

CAUTION: This sample should be considered as a potential biohazard and universal precautions should be followed. Intended for *in vitro* use only.

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This data sheet serves as a Certificate of Analysis and has been approved by Stephanie Helmstetter, Assistant Director. Signature and Date: <u>Stephanic Helmstetter</u> 06 February 2023

Data Sheel

Assay conditions

To measure cytochrome P450 (CYP) activity, liver S9 samples (0.2 mg/mL) were incubated in triplicate at $37 \pm 2^{\circ}$ C for 10 minutes in potassium phosphate buffer (50 mM, pH 7.4), containing MgCl₂ (3.0 mM), EDTA (1.0 mM), NADP (1.0 mM), glucose-6-phosphate (5.0 mM), glucose-6-phosphate dehydrogenase (1 Unit/mL) and 7-ethoxycoumarin (500 μ M), at the final concentrations indicated. Metabolite formation was determined by validated LC-MS/MS methods with deuterated metabolites as internal standards.

To measure UDP-glucuronosyltransferase (UGT) activity, liver S9 samples (0.1 mg/mL) were incubated in triplicate at $37 \pm 2^{\circ}$ C for 10 minutes in Tris-HCl (100 mM, pH 7.7 at 37°C), CHAPS (0.5 mM), EDTA (1.0 mM), MgCl₂ (10 mM), D-saccharic acid 1,4-lactone (100 μ M), uridine diphosphate-glucuronic acid (8.0 mM) and 4-methylumbelliferone (1 mM), at the final concentrations indicated. Metabolite formation was determined by validated LC-MS/MS methods with deuterated metabolites as internal standards.

To measure glutathione S-transferase activity (GST), liver S9 samples (5 to $50 \mu g/mL$) were incubated in triplicate at $37 \pm 2^{\circ}C$ for 10 minutes in potassium phosphate buffer (100 mM, pH 6.5), glutathione (1 mM), and CDNB (1 mM), at the final concentrations indicated. Reaction rates are determined by photometric kinetic measurements at 340 nm.

To measure aldehyde oxidase (AO) activity, liver S9 samples (0.05 mg/mL) were incubated in triplicate at $37 \pm 2^{\circ}$ C for 1 minute in potassium phosphate buffer (50 mM, pH 7.4) and phthalazine (25 μ M), at the final concentrations indicated. Metabolite formation was determined by validated LC-MS/MS methods with deuterated metabolites as internal standards.



Sample	Gender	Age (Yrs)	Race	Cause of Death
248	М	29	Hispanic	Head trauma
255	М	46	Hispanic	Anoxia
262	М	42	Caucasian	Cerebrovascular accident
310	F	52	Caucasian	Cerebrovascular accident
342	F	31	Caucasian	Anoxia
375	М	23	Caucasian	Head trauma
380	М	47	Caucasian	Head trauma
384	М	53	Caucasian	Anoxia
386	М	32	Caucasian	Head trauma
400	F	42	Caucasian	Anoxia
402	М	32	Caucasian	Anoxia
405	М	32	Caucasian	Anoxia
407	М	69	Caucasian	Cerebrovascular accident
408	М	32	Caucasian	Head trauma
409	F	63	Hispanic	Cerebrovascular accident
411	М	55	Caucasian	Anoxia
412	М	66	Caucasian	Cerebrovascular accident
418	F	62	Hispanic	Anoxia
437	М	62	Caucasian	Cerebrovascular accident
438	М	56	Caucasian	Head trauma
439	F	78	Caucasian	Anoxia
451	М	58	Caucasian	Cerebrovascular accident
453	F	25	Caucasian	Anoxia
460	F	43	Hispanic	Cerebrovascular accident
461	F	74	Caucasian	Cerebrovascular accident
466	М	48	Caucasian	Anoxia
474	М	33	Caucasian	Anoxia
475	М	27	Caucasian	Anoxia
479	М	65	Caucasian	Anoxia
484	F	55	Caucasian	Cerebrovascular accident
487	М	48	Caucasian	Head trauma
488	М	57	Caucasian	Head trauma
490	F	60	Caucasian	Cerebrovascular accident
496	F	58	Caucasian	Cerebrovascular accident
499	F	55	Caucasian	Cerebrovascular accident
506	F	48	Caucasian	Cerebrovascular accident
515	F	59	Caucasian	Cerebrovascular accident
530	 F	64	Caucasian	Head trauma
532	M	26	Caucasian	Head trauma
533	M	28	African American	Anoxia
536	F	34	Caucasian	Anoxia
542	F	53	Caucasian	Cerebrovascular accident
074	F		Judousiun	



Sample	Gender	Age (Yrs)	Race	Cause of Death
544	М	45	Caucasian	Anoxia
546	F	53	Caucasian	Cerebrovascular accident
548	F	61	Caucasian	Anoxia
552	М	40	American Indian	Head trauma
554	F	43	Caucasian	Anoxia
555	М	69	Caucasian	Anoxia
556	F	49	Caucasian	Cerebrovascular accident
558	М	50	Caucasian	Anoxia
561	М	55	African American	Cerebrovascular accident
569	М	60	Caucasian	Anoxia
572	М	68	Caucasian	Cerebrovascular accident
574	М	63	Caucasian	Cerebrovascular accident
576	F	55	Caucasian	Cerebrovascular accident
577	F	23	Caucasian	Cerebrovascular accident
582	F	60	Caucasian	Anoxia
589	F	55	Caucasian	Cerebrovascular accident
594	F	51	Caucasian	Cerebrovascular accident
596	F	17	Caucasian	Head trauma
603	F	67	Caucasian	Head trauma
605	F	49	Caucasian	Cerebrovascular accident
608	F	54	Caucasian	Anoxia
611	F	25	Caucasian	Cerebrovascular accident
617	F	52	Caucasian	Cerebrovascular accident
619	F	45	Caucasian	Cerebrovascular accident
625	F	39	Caucasian	Anoxia
628	F	62	Caucasian	Cerebrovascular accident
634	F	63	Caucasian	Cerebrovascular accident
659	F	33	Hispanic	Anoxia
686	F	52	Caucasian	Anoxia
706	F	53	Caucasian	Cerebrovascular accident
715	М	21	Caucasian	Head trauma
726	F	48	Caucasian	Cerebrovascular accident
728	Μ	39	Caucasian	Cerebrovascular accident
729	F	66	Caucasian	Head trauma
736	F	46	Caucasian	Anoxia
744	М	57	Caucasian	Cerebrovascular accident
750	F	53	Caucasian	Anoxia
751	М	29	Caucasian	Anoxia
755	F	39	Caucasian	Anoxia
758	F	55	Caucasian	Cerebrovascular accident
761	М	70	Caucasian	Cerebrovascular accident
765	F	39	Caucasian	Cerebrovascular accident
766	F	38	Caucasian	Anoxia



769 M 58 Caucasian Head trauma 772 M 46 Caucasian Anoxia 773 M 46 Caucasian Head trauma 778 M 61 Caucasian Cerebrovascular accident 780 F 48 African American Cerebrovascular accident 784 M 36 Hispanic Head trauma 807 F 47 Caucasian Cerebrovascular accident 807 F 47 Caucasian Cerebrovascular accident 807 F 47 Caucasian Cerebrovascular accident 810 M 37 Caucasian Head trauma 811 M 16 Caucasian Cerebrovascular accident 813 M 52 Caucasian Anoxia 817 F 31 Caucasian Anoxia 817 F 31 Caucasian Anoxia 817 F 31 Caucasian Anoxia 818 M 48 Hispanic Cer	Sample	Gender	Age (Yrs)	Race	Cause of Death
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976F61CaucasianHead trauma977M54CaucasianHead trauma978F56HispanicCerebrovascular accident982F30CaucasianAnoxia983M49CaucasianAnoxia985F58CaucasianCerebrovascular accident989F47CaucasianCerebrovascular accident990M38CaucasianCerebrovascular accident	974	М	19	Hispanic	Anoxia
977M54CaucasianHead trauma978F56HispanicCerebrovascular accident982F30CaucasianAnoxia983M49CaucasianAnoxia985F58CaucasianCerebrovascular accident989F47CaucasianCerebrovascular accident990M38CaucasianCerebrovascular accident	975	Μ	46	Hispanic	Cerebrovascular accident
978F56HispanicCerebrovascular accident982F30CaucasianAnoxia983M49CaucasianAnoxia985F58CaucasianCerebrovascular accident989F47CaucasianCerebrovascular accident990M38CaucasianCerebrovascular accident	976	F	61	Caucasian	Head trauma
982F30CaucasianAnoxia983M49CaucasianAnoxia985F58CaucasianCerebrovascular accident989F47CaucasianCerebrovascular accident990M38CaucasianCerebrovascular accident	977		54	Caucasian	Head trauma
983M49CaucasianAnoxia985F58CaucasianCerebrovascular accident989F47CaucasianCerebrovascular accident990M38CaucasianCerebrovascular accident			56	Hispanic	Cerebrovascular accident
985F58CaucasianCerebrovascular accident989F47CaucasianCerebrovascular accident990M38CaucasianCerebrovascular accident		F	30	Caucasian	Anoxia
989F47CaucasianCerebrovascular accident990M38CaucasianCerebrovascular accident				Caucasian	Anoxia
990 M 38 Caucasian Cerebrovascular accident	985		58	Caucasian	Cerebrovascular accident
	989	F	47	Caucasian	Cerebrovascular accident
994 F 73 Caucasian Cerebrovascular accident				Caucasian	Cerebrovascular accident
	994	F	73	Caucasian	Cerebrovascular accident



Sample	Gender	Age (Yrs)	Race	Cause of Death
995	F	45	Caucasian	Cerebrovascular accident
996	F	10	Caucasian	Anoxia
997	М	63	Caucasian	Anoxia
998	F	63	Caucasian	Cerebrovascular accident
999	F	19	Hispanic	Anoxia
1001	F	50	American Indian	Cerebrovascular accident
1002	М	48	African American	Cerebrovascular accident
1003	F	75	Caucasian	Cerebrovascular accident
1004	F	45	Caucasian	Head trauma
1005	М	45	Caucasian	Cerebrovascular accident
1006	М	50	Caucasian	Anoxia
1007	М	20	Caucasian	Head trauma
1008	М	36	Hispanic	Cerebrovascular accident
1009	М	22	Caucasian	Cerebrovascular accident
1010	М	63	Caucasian	Cerebrovascular accident
1011	М	65	Caucasian	Cerebrovascular accident
1012	М	41	Caucasian	Anoxia
1013	М	51	Caucasian	Cerebrovascular accident
1014	М	55	Caucasian	Anoxia
1015	М	59	Caucasian	Cerebrovascular accident
1016	М	64	Hispanic	Head trauma
1018	М	59	Caucasian	Anoxia
1020	F	24	Caucasian	Cerebrovascular accident
1022	М	41	Caucasian	Anoxia
1024	F	59	Caucasian	Anoxia
1025	М	57	Caucasian	Cerebrovascular accident
1026	F	55	African American	Head trauma
1027	F	63	Caucasian	Cerebrovascular accident
1028	F	51	African American	Cerebrovascular accident
1030	М	67	Caucasian	Cerebrovascular accident
1032	М	64	Caucasian	Cerebrovascular accident
1033	F	55	Caucasian	Cerebrovascular accident
1042	М	51	Caucasian	Cerebrovascular accident
1044	F	19	Caucasian	Anoxia
1045	М	48	Caucasian	Cerebrovascular accident
1046	М	49	Caucasian	Anoxia
1047	М	53	Hispanic	Cerebrovascular accident
1051	F	57	African American	Cerebrovascular accident
1054	М	19	Caucasian	Head trauma
1055	F	29	African American	Head trauma
1060	М	49	Hispanic	Cerebrovascular accident
1061	М	40	Hispanic	Cerebrovascular accident
1063	М	43	Hispanic	Head trauma
1066	М	60	Caucasian	Cerebrovascular accident



Sample	Gender	Age (Yrs)	Race	Cause of Death
1068	М	43	Caucasian	Head trauma
1069	М	39	Caucasian	Cerebrovascular accident
1074	F	51	African American	Cerebrovascular accident
1075	М	56	Caucasian	Cerebrovascular accident
1077	F	57	Caucasian	Head trauma
1079	М	41	Caucasian	Anoxia
1081	М	55	Caucasian	Cerebrovascular accident
1084	М	52	Caucasian	Cerebrovascular accident
1087	М	51	African American	Cerebrovascular accident
1088	F	61	Caucasian	Cerebrovascular accident
1089	М	55	Caucasian	Anoxia
1090	М	49	Caucasian	Cerebrovascular accident
1091	М	74	Caucasian	Cerebrovascular accident
1093	F	48	Caucasian	Cerebrovascular accident
1094	М	59	African American	Cerebrovascular accident
1095	F	60	Caucasian	Cerebrovascular accident
1097	М	36	Caucasian	Cerebrovascular accident
1098	М	54	Caucasian	Head trauma
1101	F	47	Caucasian	Anoxia
1102	М	48	Caucasian	Cerebrovascular accident
1106	F	20	Caucasian	Cerebrovascular accident
1107	F	55	Caucasian	Cerebrovascular accident
1108	F	45	African American	Cerebrovascular accident
1117	F	66	Caucasian	Cerebrovascular accident
1130	F	65	Caucasian	Cerebrovascular accident
1155	F	43	Caucasian	Cerebrovascular accident
1157	F	59	Hispanic	Head trauma

Serology information

- Cytomegalovirus: 123 of 200 donors tested positive and 1 donor was not determined.
- RPR*: 200 donors tested negative.
- HIV, HTLV, HbsAg, and HCV**: All donors tested negative.
- * Rapid Plasma Reagin
- ** Antibody to Human Immunodeficiency Virus, Antibody to Human T Cell Lymphotropic Virus, Hepatitis B Surface Antigen, Antibody to Hepatitis C Virus, respectively.

