Male ICR/CD-1 Mouse Microsomes — Liver, Pooled, Frozen, 10 mg @ 20 mg/mL

Product: M00501 | Lot: SOO

Storage: ≤ ***-70 °C***

Protein & p450 Concentration

Parameter	Specification	Result	
Protein	20—26 mg/mL	26.3	mg/mL
Total P450	nmol/mg	1.07	nmol/mg
Volume	≥ 0.5 mL	0.58	mL
Number of Donors	≥ 3 male ICR/CD-1 mouse donors	498	donors

Protein and p450 values are average concentrations of samples from the beginning, middle, and end of the production run.

Metabolic Activity

	Enzyme	Substrate	Conc. [µM]	Metabolite	Result**
ECOD	7- Ethoxycoumarin O-deethylation	7-ethoxycoumarin	75	7-HC, 7-HCG, and 7-HCS*	**670**
UGT	7-Hydroxycoumarin glucuronidation	7-hydroxycoumarin	30	7-HCG	**1865**
CYP1A2	Phenacetin O-deethylation	Phenacetin	15	acetaminophen	**294**
CYP2A6	Coumarin 7-hydroxylation	Coumarin	8	7-HC, 7-HCG, and 7-HCS	**0**
CYP2C9	Tolbutamide methyl- hydroxylation	Tolbutamide	150	4'-methylhydroxytolbutamide	**72.3**
CYP2C19	S-Mephenytoin 4'- hydroxylation	S-mephenytoin	20	4'-hydroxymephenytoin	**26.9**
CYP2D6	Dextromethorphan O- demethylation	Dextromephorphan	8	dextrorphan	**91.2**
CYP2E1	Chlorzoxazone 6-hydroxylation	Chlorzoxazone	100	6-hydroxychlorzoxazone	**586**
CYP3A4	Testosterone 6ß-hydroxylation	Testosterone	50	6β-hydroxytestosterone	**343**

**7-hydroxycoumarin (7-HC), 7-hydroxycoumarin glucuronide (7-HCG), 7-hydroxycoumarin sulfate (7-HCS)*
***Metabolite rate of formation is measured in pmol/min/mg*

Metabolic assays are run in triplicate. Activity results analyzed by HPLC-UV or LC/MS/MS validated procedures. Metabolite formation for all enzymes is measured after a 30 minute incubation at 37°C, 5% CO_2 and a final protein concentration of 0.5 mg.

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

Caution: *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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