

Male Han Wistar Rat Liver — Microsomes, Pooled, Frozen, 10 mg @ 20 mg/mL

Product: M00061 | Lot: QLX

Storage: ≤ -70 °C

Protein & p450 Concentration

Parameter	Specification	Result
Protein	≥ 20mg/mL	25.1 mg/mL
Total P450	nmol/mg	0.616 nmol/mg
Volume	≥ 0.5 mL	0.55 mL
Number of Donors	≥ 3 Male Han Wistar rat donors	50 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	75	7-HC, 7-HCG, and 7-HCS*	225
UGT	7-Hydroxycoumarin glucuronidation	30	7-HCG	2008
CYP1A2	Phenacetin O-deethylation	15	acetaminophen	97.9
CYP2A6	Coumarin 7-hydroxylation	8	7-HC, 7-HCG, and 7-HCS	0.00
CYP2C9	Tolbutamide methyl- hydroxylation	150	4'-methylhydroxytolbutamide	63.5
CYP2C19	S-Mephenytoin 4'- hydroxylation	20	4'-hydroxymephenytoin	3.35
CYP2D6	Dextromethorphan O- demethylation	8	dextrorphan	129
CYP2E1	Chlorzoxazone 6-hydroxylation	100	6-hydroxychlorzoxazone	427
CYP3A4	Testosterone 6β-hydroxylation	50	6β-hydroxytestosterone	305
CYP3A4	Midazolam 1-hydroxylation	4	1-hydroxymidazolam	19.6

*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% CO₂ 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.