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POOLED MALE DOG LIVER MICROSOMES

(Beagle)

Catalog Number......452601 Lot Number......2302074 Storage Conditions......STORE AT -80°C

Date Released......2023 March

Package Content......0.5 mL

Protein Content......20 mg/mL in 250 mM Sucrose

Enzyme Assay Results

Enzyme Measured	Assay	Enzyme Activity [in pmole/(mg x min)]
Total P450	Omura and Sato	690 pmole/mg
OR	Cytochrome c Reductase	80 nmole/(mg x min)
Cytochrome b₅	Spectrophotometric	370 pmole/mg
CYP3A	Testosterone 6β-hydroxylase	680 pmol/(mg x min)
CYP2B	Testosterone 16α-hydroxylase	850 pmol/(mg x min)
CYP1A	7-Ethoxyresorufin O-Deethylase	280 pmol/(mg x min)

- Cytochrome P450 assays were conducted at 0.2 mg/mL protein (except 7-Ethoxyresorufin O-Deethylase assay which was conducted at 0.1 mg/mL) in 0.1 M Potassium Phosphate Buffer (pH 7.4) with a NADPH generating system (1.3 mM NADP, 3.3 mM glucose 6-phosphate, 3.3 mM MgCl₂ and 0.4 U/mL glucose 6-phosphate dehydrogenase). Incubation times for the assays were 4 minutes (7-ethoxyresorufin O-deethylase) and 20 minutes (testosterone 6β -hydroxylase, testosterone 16α -hydroxylase). Enzyme activities are expressed as pmol product per (mg protein x minute) except cytochrome c reductase which is expressed as nmol product per (mg protein x minute).
- The protein concentration reported has been demonstrated to be within an acceptable range of 18-24 mg/mL. Range reported is due to intrinsic variability in the assay.
- Pool is comprised of livers from 11dogs, aged \geq 12 months.

Animal Husbandry Information

Food: Purina Dog Chow #5006

Water: Well water

Housing: Galvanized cages with rubber mats and concrete walls; Cleaned daily, disinfected weekly; 12

hour light/dark cycle; Temperature: 70-72 °F; ~ 60% relative outside humidity

Safety Recommendations:

Safety assessment indicates this product is non-hazardous; therefore no SDS [Safety Data Sheet] is provided. Handle in accordance with good industrial hygiene and laboratory safety practices.

Quality Assurance