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POOLED MALE RAT LIVER MICROSOMES (Wistar Han)

Catalog Number.....452511 Storage Conditions.....**STORE AT -80°C**
Lot Number.....2211111 Date Released..... 2022 November

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	710 pmole/mg
OR	Cytochrome c Reductase	190 nmole/(mg x min)
Cytochrome b ₅	Spectrophotometric	450 pmole/mg
CYP3A	Testosterone 6β-hydroxylase	3200
CYP2C	Testosterone 16α-hydroxylase	2600
CYP1A	7-Ethoxyresorufin O-Deethylase	220

- Cytochrome P450 assays were conducted at 0.2 mg/mL protein (except the 7-ethoxyresorufin O-deethylase assay which was conducted at 0.25 mg/mL) in 0.1 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 5 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 20 rats, 8-10 weeks of age.

SAFETY RECOMMENDATION: 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

12/01/2022
Date

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

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