

# POOLED MALE RAT LIVER MICROSOMES (Sprague Dawley)

Catalog Number.....452501  
Lot Number..... 9252001

Storage Conditions.....**STORE AT -80°C**  
Date Released.....2019 December

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	850 pmole/mg
OR	Cytochrome c Reductase	290 nmole/(mg x min)
Cytochrome b <sub>5</sub>	Spectrophotometric	620 pmole/mg
CYP3A	Testosterone 6 $\beta$ -hydroxylase	5400
CYP2C	Testosterone 16 $\alpha$ -hydroxylase	4500
CYP1A	7-Ethoxyresorufin O-Deethylase	89

- Cytochrome P450 assays were conducted at 0.2 mg/mL protein (except 7-ethoxyresorufin O-deethylase assays which was conducted at 0.25 mg/mL) in 0.1 M Potassium Phosphate buffer (pH 7.4) with an NADPH generating system (1.3 mM NADP, 3.3 mM glucose 6-phosphate, 3.3 mM MgCl<sub>2</sub>, 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 6 $\beta$ -hydroxylase, testosterone 16 $\alpha$ -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).
- Animals were acclimated on gypsum treated paper bedding for at least seven days prior to use.
- Pool is comprised of livers from approximately 114 rats, 8-10 weeks of age.

## Safety Recommendations:

Safety assessment indicates that 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

10 Dec, 2019  
Date

**For research use only. Not for use in diagnostic or therapeutic procedures.**