XENOTECH, LLC

R1088 / Lot No. 0510064

Sprague Dawley Rat Liver Microsomes
Isoniazid-treated, Male, Pool of 25
0.5 mL at 20 mg protein / mL

Specific content and activities		Content / Rate
Cytochrome P450	(nmol/mg protein)	1.01
Cytochrome b_5	(nmol/mg protein)	0.791
NADPH-cytochrome *c* reductase	(nmol/mg protein/min)	227 ± 10
4-nitrophenol hydroxylation	(nmol/mg protein/min)	3.13 ± 0.08

Background: Treatment of male rats with Isoniazid causes a 3- to 5-fold induction of liver microsomal CYP2E levels, which is associated with an increase in 4-nitrophenol hydroxylation and chlorzoxazone 6-hydroxylation, although P450 enzymes other than CYP2E1 can catalyze these same reactions.

Animal Information

Species:	Rat	Treatment:	Isoniazid
Strain:	IGS*, Sprague Dawley	Source:	Sigma (Cat. No. I-3377)
Sex:	Male	Vehicle:	Saline
Age:	~8 weeks	Concentration:	40 mg/mL
Vendor:	Charles River Raleigh, NC	Regimen:	200 mg/kg body weight once per day on days 1-4, liver microsomes prepared on day 5

* International Genetic Standard

Rats were laboratory animals and were housed in an AAALAC-accredited facility, which is registered as a research facility with the USDA-APHIS-AC. They were allowed to acclimate ≥ seven days before use.

Food:	Harlan Teklad Rodent Chow #8604 (*ad libitum*)
Water:	Automatic watering system (*ad libitum*)
Light/dark cycle:	6:00 am – 6:00 pm light, 6:00 pm – 6:00 am dark (12-hour light/dark)
Temperature:	72ºF ± 3ºF
Humidity:	45-55%
Bedding:	Cell-Sorb Plus (gypsum treated paper product), A&W Products, New Philadelphia, OH
Cage:	Polycarbonate Shoebox Cage, conventional cage

Store at -80°C

For in vitro *use only*

CAUTION: *Although strict measures are taken to ensure that livers obtained from laboratory animals do not harbor infectious diseases, we recommend that all animal products be handled as potential biohazards and universal precautions be followed.*

DATA SHEET PREPARED 8/24/05

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