XENOTECH, LLC

D1095 / Lot No. 0510078

Beagle Dog Liver Microsomes
Rifampin-treated
Male, Pool of 2
0.5 mL at 20 mg protein / mL

Specific content and activities	Content / Rate
Cytochrome P450 (nmol/mg protein)	0.865
Cytochrome b_5 (nmol/mg protein)	0.265
NADPH-cytochrome *c* reductase (nmol/mg protein/min)	61.4
Testosterone 6β-hydroxylation (pmol/mg protein/min)	1370[a]

[a] Fold induction: ~2.5 -fold increase over control microsomes

Background: Treatment of male dogs with rifampin causes a marked induction (>2-fold) of liver microsomal CYP3A levels, which is associated with an increase in testosterone 6β-hydroxylation. Liver microsomes from corn oil-treated dogs were used as a control.

Animal Information

Species:	Dog	Treatment:	Rifampin
Strain:	Beagle	Vehicle:	Corn Oil
Sex:	Male	Regimen:	10 mg/kg body weight once per day on days 1-4, liver was harvested and snap-frozen on day 5
Age:	Sexually mature		

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 6/28/05

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