XENOTECH

Data Sheet

Certificate of Analysis

P2000 Lot No. 2210248

Cynomolgus Monkey Liver Microsomes
Untreated, Male, Pool of 6
0.5 mL at 20 mg protein / mL
Suspension medium: 250 mM sucrose

Specific Content and Enzyme Activities		***Content / Rate***
Cytochrome P450 content	(nmol/mg protein)	0.998
Cytochrome b_5 content	(nmol/mg protein)	0.404
NADPH-cytochrome *c* reductase	(nmol/mg protein/min)	149 ± 2
7-Ethoxycoumarin *O*-dealkylation	(pmol/mg protein/min)	3170 ± 90

Characterization is performed when the first lot of a product from a given subcellular fraction (*e.g., S9*) is prepared. Values for enzyme activities were determined at a single substrate concentration and are mean ± standard deviation of three or more determinations.

To measure cytochrome P450 (CYP) activity, liver microsomes (50 µg/mL) were incubated in triplicate at 37 ± 2°C for 10 minutes in potassium phosphate buffer (50 mM, pH 7.4), containing $MgCl_2$ (3.0 mM), EDTA (1.0 mM), NADP (1.0 mM), glucose-6-phosphate (5.0 mM), glucose-6-phosphate dehydrogenase (1 Unit/mL) and 7-ethoxycoumarin (500 µM), at the final concentrations indicated. Metabolite formation was determined by validated LC-MS/MS methods with deuterated metabolites as internal standards.

Animal Information

Species:	Monkey
Strain:	Cynomolgus
Sex:	Male
Age:	3-9 years
Vendor:	Worldwide Primates Inc., Miami, FL

Animals were housed in an AAALAC-accredited facility and allowed to acclimate ≥ seven days before use.

Imported animals were quarantined for one month prior to shipment into the United States to reduce the risk of importing Ebola virus-infected monkeys. All animals were under veterinary care and were asymptomatic at the time of euthanasia. All of the monkeys tested negative for Simian Retrovirus. None of the animals examined tested positive for any other infectious agents

Store at -80°C

CAUTION: This sample should be considered as a potential biohazard and universal precautions should be followed. Intended for *in vitro* use only.

This data sheet serves as a Certificate of Analysis and has been approved by Stephanie Helmstetter, Senior Manager.
Signature and Date: Stephanie Helmstetter 23 September 2022