

## R1000.R Lot No. 2210122

Sprague Dawley (SD) Rat Kidney Microsomes Untreated, Male, Pool of 150 0.5 mL at 10 mg protein / mL

Suspension medium: 250 mM sucrose

| Enzyme Activities                        |                       | Rate       |
|--|-----------------------|------------|
| NADPH-cytochrome <i>c</i> reductase      | (nmol/mg protein/min) | 51.3 ± 3.1 |
| Lauric Acid 12-hydroxylation             | (pmol/mg protein/min) | 933 ± 31   |
| Glucuronidation of 4-Methylumbelliferone | (nmol/mg protein/min) | 87.2       |

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, kidney microsome samples (0.1 mg/mL) were incubated in triplicate at  $37 \pm 2^{\circ}$ C for 10 minutes in potassium phosphate buffer (50 mM, pH 7.4), containing MgCl<sub>2</sub> (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 lauric acid (100  $\mu$ M), at the final concentrations indicated. Metabolite formation was determined by validated LC-MS/MS methods with deuterated metabolites as internal standards.

To measure UDP-glucuronosyltransferase (UGT) activity, kidney microsome samples (0.2 mg/mL) were incubated in triplicate at  $37 \pm 2^{\circ}$ C for 10 minutes in Tris-HCl (100 mM, pH 7.7 at  $37^{\circ}$ C), CHAPS (0.5 mM), EDTA (1.0 mM), MgCl<sub>2</sub> (10 mM), D-saccharic acid 1,4-lactone (100  $\mu$ M), uridine diphosphate-glucuronic acid (8.0 mM) and 4-methylumbelliferone (1 mM), at the final concentrations indicated. Metabolite formation was determined by validated LC-MS/MS methods with deuterated metabolites as internal standards.

Subcellular fractions were prepared from whole kidney.

## **Animal Information**

Species: Rat

Strain: International Genetic Standard (IGS), Sprague Dawley

Sex: Male Age: ~8 weeks

Vendor: Charles River, Raleigh, NC

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

Food: Purina 5L79 (ad libitum)

Water: Automatic watering system (ad libitum)

Light/dark cycle: 5:00 am - 5:00 pm, light; 5:00 pm - 5:00 am, dark (12-hour light/dark)

Temperature:  $70^{\circ}\text{F} \pm 2^{\circ}\text{F}$ Humidity:  $30\text{-}70^{\circ}\text{M}$ 

Cage: Beta Chip (hardwood), NEPCO, Warrensburg, NY



## 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.

These data were generated by and are the property of XenoTech. These data are not to be reproduced, published or distributed without the express written consent of XenoTech.

This data sheet serves as a Certificate of Analysis and has been approved by Stephanie Helmstetter, Senior Manager.

Signature and Date: <u>Stephania Helmstetta</u> 06 June 2022