

## L1000.S9 Lot No. 2310101

New Zealand Rabbit Liver S9 Fraction Untreated, Male, Pool of 4

1.0 mL at 20 mg protein / mL

Suspension medium: 50 mM Tris·HCl, 150 mM KCl, 2 mM EDTA

Specific Content and Enzyme Activities		Content / Rate
Cytochrome P450 content Cytochrome b <sub>5</sub> content	(nmol/mg protein) (nmol/mg protein)	0.379 0.244
7-Ethoxycoumarin <i>O</i> -dealkylation Glucuronidation of 4-methylumbelliferone CDNB <sup>a</sup>	(nmol/mg protein/min) (nmol/mg protein/min) (nmol/mg protein/min)	760 ± 45 80.1 ± 8.2 4380 ± 80

<sup>&</sup>lt;sup>a</sup> 1-Chloro-2,4-dinitrobenzene-glutathione conjugation by glutathione S-transferase.

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 S9 samples (0.2 mg/mL) were incubated in triplicate at  $37 \pm 1^{\circ}$ 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 7-ethoxycoumarin (500  $\mu$ 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, liver S9 samples (0.1 mg/mL) were incubated in triplicate at  $37 \pm 1^{\circ}$ 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.

To measure glutathione S-transferase activity (GST), liver S9 samples (5 to 50  $\mu$ g/mL) were incubated in triplicate at 37  $\pm$  1°C for 10 minutes in potassium phosphate buffer (100 mM, pH 6.5), glutathione (1 mM), and CDNB (1 mM), at the final concentrations indicated. Reaction rates are determined by photometric kinetic measurements at 340 nm.

## **Animal Information**

Species: Rabbit
Strain: New Zealand
Sex: Male
Age: 9 months

Age: > 9 months

Vendor: BioChemed, Winchester, VA

Rabbits 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 for ≥ seven days.

Food: Purina 5326 high Fiber Diet (ad libitum)
Water: Automatic watering system (ad libitum)

Light/dark cycle: 16 hours light / 8 hours dark

Temperature: 68-72 °F Humidity: 50-55 % Bedding: None used

Cage: Conventional wire grid cage



## 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, Assistant Director.

Signature and Date: Stephanie Helmstetter 11 April 2023