

## L1500.S9 Lot No. 2410023

## New Zealand White Rabbit Liver S9 Fraction Untreated, Female, Pool of 3 1.0 mL at 20 mg protein / mL

Suspension medium: 50 mM Tris·HCI, 150 mM KCI, 2 mM EDTA

Specific Content and Enzyme Activities		Content / Rate	
Cytochrome P450 content	(nmol/mg protein)	0.386	
Cytochrome b5 content	(nmol/mg protein)	0.249	
7-Ethoxycoumarin O-dealkylation	(nmol/mg protein/min)	438 ± 29	
Glucuronidation of 4-methylumbelliferone	(nmol/mg protein/min)	76.7 ± 2.2	
CDNB <sup>a</sup>	(nmol/mg protein/min)	2070 ± 50	

<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 ± 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: Strain: Sex: Age: Vendor:	Rabbit New Zealand White Female >9 months BioChemed, Winchester, VA	
Animals were housed in an AAALAC-accredited facility and allowed to acclimate > seven days before use.			l
	Food: Water: Light/dark cycle: Temperature: Humidity: Bedding: Cage:	Purina 5326 High Fiber Diet ( <i>ad libitum</i> ) Automatic watering system ( <i>ad libitum</i> ) 16 hours light / 8 hours dark 68°F -72°F 50-55 % None used 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.

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Data Sheel