

M1000.R Lot No. 1310043

CD1 Mouse Kidney Microsomes Untreated, Male, Pool of 250 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)	69.7 ± 3.5	
Lauric Acid 12-hydroxylation	(pmol/mg protein/min)	1410 ± 30	
Glucuronidation of 4-Methylumbelliferone	(nmol/mg protein/min)	32.4 ± 2.7	

Characterization is performed when the first lot of a product from a given subcellular fraction (e.g., S9) is prepared. Subsequent lots are subject to a verification test only. Values for enzyme activities were determined at a single substrate concentration and are mean \pm standard deviation of three or more determinations.

To measure cytochrome P450 (CYP) activity, kidney microsomes (0.1 mg/mL) were incubated in triplicate at 37 ± 1°C for 10 minutes in potassium phosphate buffer (50 mM, pH 7.4), containing MgCl₂ (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 μ 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 microsomes (0.2 mg/mL) were incubated in triplicate at 37 \pm 1°C for 10 minutes in Tris-HCl (100 mM, pH 7.7 at 37°C), CHAPS (0.5 mM), EDTA (1.0 mM), MgCl₂ (10 mM), D-saccharic acid 1,4-lactone (100 μ 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: Strain: Sex: Age: Vendor:	Mouse CD1 Male ~ 11 weeks 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°F ± 2°FHumidity:30-70 %Bedding:Beta Chip (hardwood), NEPCO, Warrensburg, NYCage:Polycarbonate Shoebox Cage, conventional 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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