

R1000.IS9 Lot No. 2310231

Sprague Dawley (SD) Rat Intestine S9 Fraction Untreated, Male, Pool of 200 1.0 mL at 4 mg protein / mL Suspension medium: 50 mM Tris-HCI, 150 mM K0

Suspension medium: 50 mM Tris·HCl, 150 mM KCl, 1 mM EDTA, 20% glycerol, heparin, PMSF, leupeptin, DTT, aprotinin

Enzyme Activities		Rate
NADPH-cytochrome <i>c</i> reductase	(nmol/mg protein/min)	30.3 ± 1.2
Testosterone 6β-hydroxylation	(pmol/mg protein/min)	52.1 ± 4.1
Midazolam 1'-hydroxylation	(pmol/mg protein/min)	32.0 ± 3.0
Glucuronidation of 4-Methylumbelliferone	(nmol/mg protein/min)	59.7 ± 7.8

Values for enzyme activities were determined at a single substrate concentration and are mean + standard deviation of three or more determinations.

Aprotinin, Leupeptin, and Phenylmethylsulfonyl-fluoride were used in the preparation of this S9 fraction. Subcellular fractions were prepared from duodenal and jejunal tissue.

To measure cytochrome P450 (CYP) activity, intestine S9 samples (0.2 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 MgCl₂ (3.0 mM), EDTA (1.0 mM), NADP (1.0 mM), glucose-6-phosphate (5.0 mM), glucose-6-phosphate (5.0 mM), glucose-6-phosphate (2.0 mM), gl

To measure UDP-glucuronosyltransferase (UGT) activity, intestine S9 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°C), CHAPS (0.5 mM), EDTA (1.0 mM), MgCl₂ (10 mM), D-saccharic acid 1,4-lactone (100 µM), uridine diphosphate-glucuronic acid (10.0 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.

Animal Information

Species: Strain: Sex:	Rat International Genetic Standard (IGS), Sprague Dawley Male ~8 weeks
Age: Vendor:	Charles River, Raleigh, NC
Animals were housed in an	AAALAC-accredited facility and allowed to acclimate \geq seven days before use.
Food: Water: Light/dark cycle: Temperature: Humidity: Bedding: Cage:	Purina 5L79 (<i>ad libitum</i>) Automatic watering system (<i>ad libitum</i>) 5:00 am - 5:00 pm, light; 5:00 pm - 5:00 am, dark (12-hour light/dark) 70°F ± 2°F 30-70 % Beta Chip (hardwood), NEPCO, Warrensburg, NY 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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Data Sheel