

Rat Liver Subcellular fractions
Product specification – Certificate of Analysis (CoA)

Lot RL211007 (Pool of 5)

Batch Release: August 4, 2022

Product information

Product number	Product description	Amount	Protein content
SD-RL-MIC-1P5	Rat liver microsomes, male, pool of 5	0.5 mL	20 mg/mL

Donor data

Species: Rattus norvegicus forma domestica Strain: CD IGS rat (Sprague Dawley) // CrI:CD (SD)	Gender: male Age: all donors 2 months
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Equal amounts of liver tissues were pooled to generate subcellular fractions.

Enzyme assay results

Enzyme (Human isoforms)	Assay	Enzyme activities (nM/min)
		Microsomes
CYP1A2	Phenacetin-O-deethylase	42.3 ± 3.0
CYP2A6	Coumarin-7'-hydroxylase	not detectable
CYP2B6	Bupropion-hydroxylase	6.4 ± 0.5
CYP2C9	Diclofenac 4'-hydroxylase	20.4 ± 0.7
CYP2C19	Mephenytoin 4'-hydroxylase	not detectable
CYP2E1	Chlorzoxazone 6'-hydroxylase	23.9 ± 2.0
CYP3A4	Midazolam 1'-hydroxylase	105.5 ± 15.3
UDP-GT	UDP-Glucuronosyltransferase	4893.2 ± 47.5

Note: Activity assays were performed at PRIMACYT GmbH. The assays were conducted at 1 mg/mL protein in 0.1 M Phosphate buffer at 37 °C for 15 min (phase I) and 30 min (phase II). Values are expressed as mean ± SD.

Species	Rat (<i>Rattus norvegicus</i> forma domestica)
Strain	CD IGS rat (Sprague Dawley) // CrI:CD(SD), IGS (International Genetic Standard)
Vendor	Charles River Germany GmbH & Co. KG, Sulzbach, FRG
Food	Altromin Maintenance diet for rats/mice (ad libitum), Altromin, Lage, FRG
Water	ad libitum
Light/Dark cycle	07:00-19:00 light / 19:00-07:00 dark (12 hours light/dark)
Temperature	20-24 °C
Humidity	40-70 %
Bedding	Hugro hemp bedding, Saerbeck, FRG
Cage	Tecniplast Eurostandard Type III and Type IV incl. behavioural enrichments for the animals
<p>Animals were housed under veterinary control and allowed to acclimate ≥ 7 days before use. Animal housing permits according to §11 Abs. 1 TSchG, dated March 20, 2017 and March 22, 2022 under supervision of Veterinary Office of Landkreis Ludwigslust/Parchim, FRG. Hepatocytes were obtained from a non-infectious, non-contagious, healthy animal. The animal does not originate from a facility conducting work or research with animal pathogens.</p>	

Store at -80 °C.

This product should be considered as potential biohazard. Only intended for *in vitro* use.

Issued by: M. Reu

Verified by: A. Ullrich