



Animal Subcellular Fractions Liver and Intestinal Microsomes, S9 Fractions Animal Hepatocytes

- Superior metabolic performance and specificity with well-characterized key CYP, FMO, UGT enzymes
- Optimal intrinsic clearance for accurate dose studies and pharmacokinetics
- Multiple species availability for robust interspecies comparison
- Streamlined for drug-drug interaction tests, safety and efficacy assessment
- Rigorous safety standards – manufactured with serological quality control
- Large lots of male and female donors for consistent, long-term supply

Animal S9 Fractions

- Characterized CYP activities and UDP (glucuronidation) for superior metabolic performance
- Flexible Options: Choose from both pooled and individual (un-pooled) preparations.
- Custom Solutions: Tailored preparations can be provided to meet specific requirements.

Species	Female	Male	Mixed Gender	Liver 0.5 mL 20 mg/mL	Intestine* -PMSF 0.5 mL 10 mg/mL	Intestine* + PMSF 0.5 mL 10 mg/mL
Mouse – C57BL/6N	✓	✓	✓	✓	✓	✓
Mouse – C57BL/6JNifdc	✓	✓	✓	✓	✓	✓
Mouse – CD-1	✓	✓	✓	✓		
Nude Mouse – BALB/c	✓	✓	✓	✓	✓	✓
Rat – SD	✓	✓	✓	✓	✓	✓
Rat – Wistar Han	✓	✓	✓	✓	✓	✓
Rat – Wistar	✓	✓	✓	✓	✓	✓
Rat – Brown Norway	✓	✓	✓	✓	✓	✓
Dog – Beagle	✓	✓	✓	✓	✓	✓
Monkey – Cynomolgus	✓	✓	✓	✓	✓	✓
Monkey – Rhesus	✓	✓	✓	✓	✓	✓
Minipig – Bama	✓	✓	✓	✓	✓	✓
Rabbit – New Zealand	✓	✓	✓	✓	✓	✓
Rabbit – Dutch-Belted	✓	✓	✓	✓	✓	✓
Cat – Maine Coon	✓	✓	✓	✓	✓	✓
Guinea Pig	✓	✓	✓	✓	✓	✓
Pig – Landrace	✓	✓	✓	✓		
Hamster – Golden Syrian		✓		✓	✓	✓
Chicken – White-feather Broiler	✓	✓	✓	✓	✓	✓

*Male only

Phenobarbital/ β -Naphthoflavone (PB/NF) induced S9 Fraction

- Comprehensive Quality control for multiple Ames Test formats: Petri Dish, 6 Well Agar Plate, liquid microplate fluctuation test
- Characterized CYP activities for superior metabolic performance
- Induced hamster liver S9 for enhanced Ames Test
- Induced rat liver S9, frozen liquid or lyophilized
- Large lots of male donors for consistent, long-term supply

Species	Male	PB/NF Induced Liver	1 mL Protein Conc. > 30 mg/mL	2 mL Protein Conc. > 30 mg/mL	5 mL Protein Conc. > 30 mg/mL
Rat – Wistar – lyophilized	✓	✓	✓	✓	
Rat – Sprague Dawley – frozen	✓	✓	✓		✓
Hamster – Golden Syrian – frozen	✓	✓	✓		✓

Animal Microsomes

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- Multiple species availability for robust interspecies comparison
- Streamlined for drug-drug interaction tests, safety and efficacy assessment
- Large lots of male and female donors for consistent, long-term supply to meet specific requirements.

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Mouse – C57BL/6N	✓	✓	✓	✓	✓	✓
Mouse – C57BL/6JNifdc	✓	✓	✓	✓	✓	✓
Mouse – CD-1	✓	✓	✓	✓	✓	✓
Mouse – BALB/c	✓	✓	✓	✓	✓	✓
Nude Mouse – BALB/c	✓	✓	✓	✓	✓	✓
Rat – SD	✓	✓	✓	✓	✓	✓
Rat – Wistar Han	✓	✓	✓	✓	✓	✓
Rat – Wistar	✓	✓	✓	✓	✓	✓
Rat – Brown Norway	✓	✓	✓	✓	✓	✓
Dog – Beagle	✓	✓	✓	✓	✓	✓
Monkey – Cynomolgus	✓	✓	✓	✓	✓	✓
Monkey – Rhesus	✓	✓		✓	✓	✓
Minipig – Bama	✓	✓		✓	✓	✓
Rabbit – New Zealand	✓	✓		✓	✓	✓
Rabbit – Dutch-Belted	✓	✓	✓	✓	✓	✓
Cat – Main Coon	✓	✓	✓		✓	✓
Guinea Pig		✓		✓	✓	✓
Pig – Landrace	✓	✓	✓	✓		
Hamster – Golden Syrian		✓		✓	✓	✓
Chicken – White-feather Broiler	✓	✓	✓	✓	✓	✓

*Male only

Cryopreserved Primary Animal Hepatocytes – Metabolism Qualified

- Customized hepatocyte solutions, single donors or pooled donors
- Exceptional metabolic performance and specificity with characterized key CYP, SULT, UGT enzymes
- > 80% viability
- Reproducible inter-lot metabolic activity
- Large lots with long-term availability
- Plateable hepatocytes have > 80% confluence on day 2



Species	Female	Male	Mixed Gender	Liver > 5 Millions	In Suspension	Plateable
Mouse – C57BL/6N	✓	✓	✓	✓	✓	✓
Mouse – C57BL/6JNifdc	✓	✓	✓	✓	✓	✓
Mouse – CD-1	✓	✓	✓	✓	✓	✓
Mouse – BALB/c	✓	✓	✓	✓	✓	✓
Nude Mouse – BALB/c	✓	✓	✓	✓	✓	
Mouse – M-NSG	✓	✓	✓	✓	✓	
Rat – SD	✓	✓	✓	✓	✓	✓
Rat – Wistar Han	✓	✓	✓	✓	✓	✓
Rat – Wistar	✓	✓	✓	✓	✓	✓
Rat – Brown Norway	✓	✓	✓	✓	✓	
Rat – Lewis	✓	✓	✓	✓	✓	
Dog – Beagle	✓	✓	✓	✓	✓	✓
Monkey – Cynomolgus		✓		✓	✓	✓
Monkey – Rhesus		✓		✓	✓	✓
Minipig – Bama		✓		✓		✓
Rabbit – New Zealand		✓		✓		✓
Hartley Guinea Pigs		✓		✓		✓
Cat – Felis Catus		✓		✓		✓
Hamster – Golden Syrian		✓		✓		✓

Animal Hepatic Stellate Cells and Non-Parenchymal Cells (NPC)

- Mechanistic insight into liver toxicity for a deeper understanding of potential drug induced injury
- For comprehensive fibrosis evaluation
- Suitable for assessment of immunological and inflammatory side effects

Species	Stellate Cells	NPCs	Liver > 0.5 Millions
Mouse – C57BL/6	✓	✓	✓
Rat – SD	✓	✓	✓
Dog – Beagle	✓	✓	✓
Monkey – Cynomolgus		✓	✓

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