

Male Sprague-Dawley Rat Hepatocytes – Pooled, Cryopreserved

Product: M00005 | Lot: ZUH

Storage: ≤ -150 °C

Post-Thaw Viability and Yield

Viability	≥ 75% post-thaw viability by trypan blue exclusion	78	%
Yield	≥ 5 million viable cells	8.71	million viable cells
Donors	Number of donors in pool	12	

Post-thaw viability and yield are an average of samples from the beginning, middle, and end of the production run. All data generated without the use of Percoll.

Metabolic Activity

	Enzyme	Substrate	Conc. [μM]	Metabolite	Result**
ECOD	7-Ethoxycoumarin O-deethylation	7-ethoxycoumarin	75	7-HC, 7-HCG, and 7-HCS*	120
UGT	7-Hydroxycoumarin glucuronidation	7-hydroxycoumarin	30	7-HCG	400
ST	7-Hydroxycoumarin sulfation	7-hydroxycoumarin	30	7-HCS	138

*7-Hydroxycoumarin (7-HC), 7-Hydroxycoumarin glucuronide (7-HCG), 7-Hydroxycoumarin sulfate (7-HCS)

**Metabolite rate of formation is measured in pmol/min/10⁶ cells

Metabolic assays are run in triplicate. Activity results analyzed by HPLC-UV or LC/MS/MS validated procedures. Metabolite formation for all enzymes is measured after a 60 min. cell incubation at 37°C, 5% CO₂ resulting in a final conc. of 1 million cells/mL.

Results for this lot have been derived through validated testing methods and confirmed by Quality Assurance.

Caution: This product is being sold for research and/or manufacturing purposes only. The biological samples supplied by BioIVT, or any material isolated from the samples, are for in-vitro research use only and are not to be used as a source of material for clinical therapies. Human material may be used in vivo in animals. The user assumes all responsibility for its usage and disposal, in accordance with all regulations.

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