

Metabolic Study Protocol Using MetMax™ Human Hepatocytes (without Cofactor in 96-Well Plate)



Hepatocyte Reagents and Materials

	Order Information	Catalog Number
PHHX MetMax™ -A Hepatocytes, Phase I, 2.5mL, 5x10 ⁶ cells, Mixed Gender	IVAL	82130
PHHX MetMax™ -B Hepatocytes, Phase I/II, 2.5mL, 5x10 ⁶ cells, Mixed Gender	IVAL	82131
HHX MetMax™ -A Hepatocytes, Phase I, 2.5mL, 5x10 ⁶ cells, Single Donor	IVAL	82182
HHX MetMax™ -B Hepatocytes, Phase I/II, 2.5mL, 5x10 ⁶ cells, Single Donor	IVAL	82183
HQM™- Hepatocyte/Enterocyte Incubation Medium, with serum free, 50 mL/500 mL	IVAL	81039/81040

Laboratory Preparation

Prior to thawing MetMax™ hepatocytes, ensure the work station is equipped with the following:

- Ice bucket containing ice
- Serological, P1000 and P200 pipettes and appropriate sterile tips
- Multichannel pipettes and appropriate sterile tips may be used for small well-formats
- Reservoir for smaller well formats
- 37°C water bath

Procedure

1. Store MetMax™ in a -80°C freezer.
2. On day of use, thaw in a 37°C water bath until a small sliver of ice is left, invert to accomplish complete melting and place on ice. This process should take 2:00 – 2:30 minutes.
3. Use a 1000 µL Eppendorf pipette (with tip) to pipet up and down three times to achieve homogeneity. You do not need to be gentle, just try to avoid creating foam during pipetting.
4. For metabolism studies, simply add equal volumes of MetMax™ hepatocytes and 2X substrate and incubate at 37°C. For example, 96 well plates pre-loaded with 50 µL of 2X substrates per well, and metabolism is initiated by adding 50 µL of MetMax™ hepatocytes to each of the wells. Return the plates to a 37°C cell culture incubator for the desired time durations.
5. For termination, use the same procedures established in your laboratory as for regular hepatocytes (e.g. add 100 µL of acetonitrile with internal standard).

Lot Specific Information

To inquire about our products and services or for technical questions please contact:

In Vitro ADMET Laboratories by phone at +1 (866) 458-1094 or +1 (410) 869-9037 or email at info@invitroadmet.com