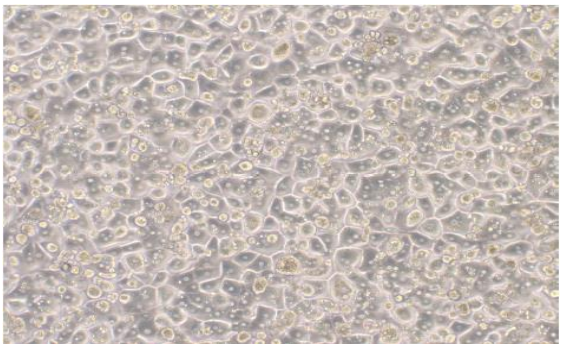
3H Biomedical™
More Innovation, Less Preparation

BIOPREDIC INTERNATIONAL

PRODUCT DATA SHEET

Fresh Human Hepatocyte-short term cultures



Product:	Human Hepatocytes for use in monolayer, short term culture
Cat no:	BHEP200-MW6 / -MW12 / -MW24 / -MW48 / -MW96
Source:	Human liver
Unit Size:	6- / 12- / 24-/ 48- / 96-well plate
Storage:	Use immediately

Cell Source

Human hepatocytes offered by 3H Biomedical are isolated from human liver by Biopredic International according to the method of Guguen-Guillouzo C and Guillouzo A (In "*Isolated and cultured hepatocytes*", Guillouzo A. and Guguen-Guillouzo C, Eds. INSERM Paris & John Libbey Eurotext London, 1986, pp.1-12.).

Cell Characterization

Human hepatocytes are negative for HIV 1-2, HBV, HCV, mycoplasma, bacteria, yeast and fungi, and are characterized using the following functional controls:

- Phenacetin O-deethylase activity (CYP1A2)
- Testosterone 6β-hydroxylase activity (CYP3A4/5)
- Paracetamol glucuronidation activity
- Paracetamol sulfation activity

Cell Culture Condition

The cells are seeded in a collagen I coated 6- / 12- / 24- / 48- / 96-well plate in Williams medium for hepatocyte seeding (Cat. no. BMIL212) and are cultured for a few hours in an incubator at 37°C and 95% air/5% CO_2 before shipment at room temperature. The packaging warrants cell quality for a maximum of 2 days shipping. The human hepatocytes are intended for immediate use. Culture the human hepatocytes in monolayer, short term culture at the conditions provided in the Instruction for use.

Recommended Cell Culture Medium

Williams medium for hepatocyte incubation (100 ml, Cat. no. BMIL214-100ML; or 500 ml, Cat. no. BMIL214-500ML)

2013 v1

This product is for research use only. Not approved for human use.

3H Biomedical AB, Dag Hammarskjölds v 34A, Uppsala Science Park, SE-751 83 Uppsala, Sweden
Phone: +46 18 50 44 00, Fax +46 18 51 38 44, E-mail: info@3hbiomedical.com
www.3hbiomedical.com

INSTRUCTION FOR USE

Fresh Human Hepatocyte-short term cultures

IMPORTANT: The hepatocytes are intended for **immediate use** in short term culture.

Receipt of the Cells

1. Work in sterile conditions.
2. At receipt of the cells, observe the cell morphology.
3. Remove the lid of the plate, and remove the adhesive or plastic top using a sterile clamp.
4. Aspirate the culture medium, being careful not to let the monolayers dry. Leave a small volume of the culture medium in each well, as specified below.
5. Add fresh cell culture medium (equilibrated to room temperature) as specified below, and replace the lid of the plate.

	Leave (µl/well)	Add (µl/well)
- 6-well	200	1800
- 12-well	100	900
- 24-well	50	400
- 48-well	20	200
- **96-well**	10-20	80

6. Observe the cell morphology before placing the plate in the incubator (37°C, 95% air/5% CO_2, 100% RH).
7. Let the cells recover overnight (minimum 2 hours).

Maintenance of Culture

1. Renew the culture medium every 24 hours.

Caution: Handling human-derived products is potentially biohazardous. Although each cell type has tested negative for HIV, HBV and HCV using serology, diagnostic tests are not necessarily 100% accurate. Therefore, proper precautions must be taken to avoid inadvertent exposure. Always wear gloves and safety glasses when working with these materials. Never mouth pipette. We recommend following the universal procedures for handling products of human origin as the minimum precaution against contamination [1].

[1]. Grizzle, W. E., and Polt, S. S. (1988) Guidelines to avoid personal contamination by infective agents in research laboratories that use human tissues. J Tissue Culture Methods. 11(4).

2013 v1

3H Biomedical AB, Dag Hammarskjölds v 34A, Uppsala Science Park, SE-751 83 Uppsala, Sweden
Phone: +46 18 50 44 00, Fax +46 18 51 38 44, E-mail: info@3hbiomedical.com
www.3hbiomedical.com