Product Sheet

Нер G2 [HEPG2] нв-8065[™]

Description

Hep G2 [HEPG2] is a cell line exhibiting epithelial-like morphology that was isolated from a hepatocellular carcinoma of a 15-year-old, White, male youth with liver cancer. The cell line was deposited by the Wistar Institute and is a suitable transfection host. Expression markers include insulin; insulin-like growth factor II (IGF II).

Organism: Homo sapiens, human Tissue: Liver Age: 15 years Gender: Male Morphology: epithelial-like Growth properties: Adherent Disease: Carcinoma; Hepatocellular

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Patent number:

4,393,133

Technical information: ATCC Product Experience does not have technical information on patent deposits that are not produced or characterized by ATCC. Additional information can be found in the corresponding patent available from the patent holder or with the U.S. and/or international patent office.

Storage Conditions

Product format: Frozen



HB-8065

Storage conditions: Vapor phase of liquid nitrogen

Intended Use

This product is intended for laboratory research use only. It is not intended for any animal or human therapeutic use, any human or animal consumption, or any diagnostic use.

BSL 1

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ATCC highly recommends that appropriate personal protective equipment is always used when handling vials. For cultures that require storage in liquid nitrogen, it is important to note that some vials may leak when submersed in liquid nitrogen and will slowly fill with liquid nitrogen. Upon thawing, the conversion of the liquid nitrogen back to its gas phase may result in the vial exploding or blowing off its cap with dangerous force creating flying debris. Unless necessary, ATCC recommends that these cultures be stored in the vapor phase of liquid nitrogen rather than submersed in liquid nitrogen.

Certificate of Analysis



For batch-specific test results, refer to the applicable certificate of analysis that can be found at www.atcc.org.

Growth Conditions

Temperature: 37°C Atmosphere: 95% Air, 5% CO₂

Handling Procedures

Unpacking and storage instructions:

- 1. Check all containers for leakage or breakage.
- 2. Remove the frozen cells from the dry ice packaging and immediately place the cells at a temperature below -130°C, preferably in liquid nitrogen vapor, until ready for use.

Complete medium:

The base medium for this cell line is ATCC-formulated Eagle's Minimum Essential Medium, Catalog No. 30-2003. To make the complete growth medium, add the following components to the base medium: fetal bovine serum to a final concentration of 10%.

Note: ATCC has only grown the HB-8065 cell line in EMEM (ATCC 30-2003). Use of any other medium or compilation starting with an MEM base may result in poor growth.

Handling Procedure:

To insure the highest level of viability, thaw the vial and initiate the culture as soon as possible upon receipt. If upon arrival, continued storage of the frozen culture is necessary, it should be stored in liquid nitrogen vapor phase and not at -70°C. Storage at -70°C will result in loss of viability.

- 1. Thaw the vial by gentle agitation in a 37°C water bath. To reduce the possibility of contamination, keep the O-ring and cap out of the water. Thawing should be rapid (approximately 2 minutes).
- 2. Remove the vial from the water bath as soon as the contents are thawed, and decontaminate by dipping in or spraying with 70% ethanol. All of the

operations from this point on should be carried out under strict aseptic conditions.

- 3. Transfer the vial contents to a centrifuge tube containing 9.0 mL complete culture medium. and spin at approximately 280 x g for 10 minutes.
- 4. Resuspend cell pellet with the recommended complete medium (see the specific lot information on the Certificate of Analysis for culture recommended dilution ratio) and dispense into a 25 cm2 or a 75 cm2 culture flask as recommended on the Certificate of Analysis. It is important to avoid excessive alkalinity of the medium during recovery of the cells. It is suggested that, prior to the addition of the vial contents, the culture vessel containing the complete growth medium be placed into the incubator for at least 15 minutes to allow the medium to reach its normal pH (7.0 to 7.6).

Recommended Start up Seeding Density: 2.0 x 104 to 6.0 x 104 viable cells/cm2

 Incubate the culture at 37°C in a suitable incubator. A 5% CO₂ in air atmosphere is recommended if using the medium described on this product sheet.

Subculturing procedure: Volumes are given for a 75 cm² flask. Increase or decrease the amount of dissociation medium needed proportionally for culture vessels of other sizes.

- 1. Remove and discard culture medium.
- 2. Briefly rinse the cell layer with D-PBS (ATCC 30-2200) solution to remove all traces of serum that contains trypsin inhibitor.
- 3. Add 2.0 to 3.0 mL of Trypsin-EDTA solution (ATCC 2101)to flask and observe cells under an inverted microscope until cell layer is dispersed (usually within 5 to 15 minutes).

Note: To avoid clumping do not agitate the cells by hitting or shaking the flask while waiting for the cells to detach. Cells that are difficult to detach may be placed at 37°C to facilitate dispersal.

- 4. Add 6.0 to 8.0 mL of complete growth medium and aspirate cells by gently pipetting.
- 5. Add appropriate aliquots of the cell suspension to new culture vessels.
- 6. Incubate cultures at 37°C.

Subcultivation Ratio: A subcultivation ratio of 1:4 to 1:6 is recommendedRecommended Subculturing Seeding Density: 2.0 x 104 to 6.0 x 104 viable cells/cm2Medium Renewal: Twice per week

Reagents for cryopreservation: Complete growth medium supplemented with 5%

HD-0000

(v/v) DMSO (ATCC 4-X)

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: Hep G2 [HEPG2] (ATCC HB-8065)

References

References and other information relating to this material are available at www.atcc.org.

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Hep G2 [HEPG2] HB-8065

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