**Description**

Organism: *Homo sapiens*, human  
Tissue: liver  
Disease: hepatocellular carcinoma  
Age: 8 years juvenile  
Gender: male  
Morphology: epithelial  
Growth Properties: adherent  

**Virus Susceptibility:**  

Viral Testing: ATCC confirmed this cell line is positive for the presence of HepB viral DNA sequences via PCR.  

**DNA Profile:**  
Amelogenin: X  
CSF1PO: 8  
D13S317: 12,14  
D16S539: 10  
D5S818: 13  
D7S820: 8,10  
THO1: 6,7  
TPOX: 9  
vWA: 17

**Cytogenetic Analysis:** modal number = 60 with a subtetraploid mode of 82; has a rearranged chromosome 1

**SAFETY PRECAUTION**

ATCC highly recommends that protective gloves and clothing always be used and a full face mask always be worn when handling frozen vials. It is important to note that some vials 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 vessel exploding or blowing off its cap with dangerous force creating flying debris.

**Unpacking & 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.

**Handling Procedure for Flask Cultures**

The flask was seeded with cells (see specific batch information) grown and completely filled with medium at ATCC to prevent loss of cells during shipping.  

1. Upon receipt visually examine the culture for macroscopic evidence of any microbial contamination. Using an inverted microscope (preferably equipped with phase-contrast optics), carefully check for any evidence of microbial contamination. Also check to determine if the majority of cells are still attached to the bottom of the flask; during shipping the cultures are sometimes handled roughly and many of the cells often detach and become suspended in the culture medium (but are still viable).  
2. If the cells are still attached, aseptically remove all but 5 to 10 mL of the shipping medium. The shipping medium can be saved for reuse. Incubate the cells at 37°C in a 5% CO₂ in air atmosphere until they are ready to be subcultured.  
3. If the cells are not attached, aseptically remove the entire contents of the flask and centrifuge at 125 xg for 5 to 10 minutes. Remove shipping medium and save. Resuspend the pelleted cells in 10 mL of this medium and add to 25 cm² flask. Incubate at 37°C in a 5% CO₂ in air atmosphere until cells are ready to be subcultured.

**Subculturing Procedure**

Protocol: Remove medium, and rinse with 0.25% trypsin, 0.53 mM EDTA solution. Remove the solution and
add an additional 1 to 2 ml of trypsin-EDTA solution. Allow the flask to sit at room temperature (or at 37°C) until the cells detach. Add fresh culture medium, aspirate and dispense into new culture flasks.

Subcultivation Ratio: A subcultivation ratio of 1:4 to 1:6 is recommended

Medium Renewal: Twice per week

Cryopreservation Medium

Cryoprotectant Medium
Complete growth medium described above supplemented with 5% (v/v) DMSO. Cell culture tested DMSO is available as ATCC Catalog No. 4-X.

Comments

This line contains an integrated hepatitis B virus genome.

References

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

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Citation of Strain

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: Hep 3B2.1-7 [Hep 3B, Hep-3B, Hep3B] (ATCC® HB-8064™)

Additional information on this culture is available on the ATCC web site at www.atcc.org.

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