Unpacking & Storage Instructions

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.

Handling Procedure for Frozen Cells

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.
3. Remove and discard culture medium.
4. Add 6.0 to 8.0 mL of complete growth medium and aspirate cells by gently pipetting.
5. Incubate cultures at 37.0°C.
6. If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: HEK293S GnTI- (ATCC® CRL-3022™).
HEK293S GnTI (ATCC® CRL-3022™)

Medium renewal: every 2 to 3 days

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

The HEK293S GnTI cell line was established by methanesulfonate mutagenesis followed by Ricin selection. HEK293S GnTI cells do not have N-acetylglucosaminyltransferase I (GnTI) activity and therefore lack complex N-glycans. Subsequently, the tetracycline-inducible opsin expression system was assembled in the cell line, making it a powerful tool for expression of recombinant proteins. Using rhodopsin, the cell line was shown to add N-glycans with the structure Man5GlcNAc2 and to produce yields of up to 6mg/l. These cells may be grown in suspension culture in a bioreactor.

References

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

Biosafety Level: 2

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the current publication of the Biosafety in Microbiological and Biomedical Laboratories from the U.S. Department of Health and Human Services Centers for Disease Control and Prevention and National Institutes for Health.

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

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