Trypanosoma lewisi (Kent) Laveran and Mesnil

30213™

Description

Strain designation: C (Costa Rica)
Deposited As: *Trypanosoma lewisi* (Kent) Laveran and Mesnil
Type strain: No

Storage Conditions

Product format: Frozen

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

ATCC determines the biosafety level of a material based on our risk assessment as guided by the current edition of *Biosafety in Microbiological and Biomedical Laboratories (BMBL)*, U.S. Department of Health and Human Services. It is your responsibility to understand the hazards associated with the material per your organization's policies and procedures as well as any other applicable regulations as enforced by your local or national agencies.

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

Host:

in vivo, laboratory rat

Instructions for complete medium: Grown *in vivo* laboratory mouse

Handling Procedures

Cryopreservation:

1. Harvest the parasites according to the protocol for maintenance in vivo.
2. Spin the cell suspension at approximately 50 x g for 3 min, to remove the cellular debris.

3. Transfer the supernatant to a new 15 ml plastic centrifuge tube. Centrifuge at 1300 x g for 10 min.

4. Pool the cell pellets and adjust the concentration to 2.0 - 4.0 x 10^7 cells/ml with a fresh solution of Tyrode's Salt Solution.

*If the concentration is too low centrifuge at 1300 x g for 10 min and resuspend in the volume of Tyrode's Salt Solution required to yield the desired concentration.

5. Mix the cell preparation and 10% DMSO (v/v) Tyrode's Salt Solution in equal portions. The final concentration will be 1.0 - 2.0 x 10^7 cells/ml and 5% DMSO in Tyrode's Salt Solution. The time from the mixing of the cell preparation and the cryoprotective solution before the freezing process begins should be no less than 15 min. and no more than 30 min.

6. Dispense in 0.5 ml aliquots to 1.0-2.0 ml sterile plastic screw-capped cryules (special plastic vials for cryopreservation).

7. Place the vials in a controlled rate freezing unit. From room temperature cool at -1°C/min to -40°C. If the freezing unit can compensate for the heat of fusion, maintain rate at -1°C/min through the heat of fusion. At -40°C plunge into liquid nitrogen. Alternatively, place the vials in a Nalgene 1°C freezing apparatus. Place the apparatus at -80°C for 1.5 to 2 hours and then plunge ampules into liquid nitrogen. (The cooling rate in this apparatus is approximately

-1°C/min.)

8. Store in either the vapor or liquid phase of a nitrogen refrigerator.

9. To thaw a frozen ampule, place it in a 35°C water bath such that the lip of the ampule remains above the water line. Thawing time is approximately 2 to 3 minutes. Do not agitate the ampule. Do not leave ampule in water bath after thawed.

10. Immediately after thawing, aseptically remove the contents of the ampule with a syringe and inoculate an uninfected mouse. Follow the protocol for maintenance in vivo.

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Trypanosoma lewisi* (Kent) Laveran and Mesnil (ATCC 30213)

References

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

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