



Tetramitus rostratus Bunting

30968™

Description

Strain designation: Tr B

Deposited As: *Tetramitus rostratus* Bunting

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

Medium:

ATCC Medium 1251: *Tetramitus rostratus* flagellate medium, PY/2

Temperature: 25°C**Incubation:** grown with *Escherichia coli* ATCC 11775

Handling Procedures

Culture maintenance:

1. Screw the cap on tightly and vigorously agitate the culture.
2. Aseptically transfer a 0.1ml aliquot to 7 ml of fresh medium in a 16 x 125 mm screw-capped test tube.
3. Screw caps on loosely (loosened one-half turn) and incubate upright at 25°C.

4. Subculture every 3-5 days.

Cryopreservation:

1. Harvest cells from a culture that is at or near peak density by centrifugation at 800 x g for 5 min.
 2. Adjust the concentration of cells to 2×10^6 - 2×10^7 /ml in fresh medium.
 3. While cells are centrifuging prepare a 5% (v/v) solution of sterile DMSO in fresh medium.
 4. Mix the cell preparation and the 5% DMSO in equal portions. Thus, the final concentration will be 10^6 - 10^7 cells/ml and 2.5% (v/v) DMSO. The time from the mixing of the cell preparation and methanol stock solution to the beginning of the freezing process should be no less than 5 min and no greater than 15 min.
 5. Dispense in 0.5 ml aliquots into 1.0 - 2.0 ml sterile plastic screw-capped cryules (special plastic vials for cryopreservation).
 6. Place the vials in a controlled rate freezing unit. From room temperature cool at $-1^\circ\text{C}/\text{min}$ to -40°C . If the freezing unit can compensate for the heat of fusion, maintain rate at $-1^\circ\text{C}/\text{min}$ 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 $-1^\circ\text{C}/\text{min}$.)
 7. Store in either the vapor or liquid phase of a nitrogen refrigerator.
 8. 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.
 9. Immediately after thawing, aseptically transfer contents to a 16 x 125 mm screw-capped test tube containing 7 ml of ATCC Medium 1251.
 10. Incubate the tube upright with the cap screwed on loosely (loosened one half turn) at 25°C .
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Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Tetramitus rostratus* Bunting (ATCC 30968)

References

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

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***Tetramitus rostratus* Bunting**

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Product Sheet

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