Unidentified Cyanobacterium texas

BAA-2462™

Description

Isolated from human foot wound
Strain designation: TX-1
Type strain: No

Storage Conditions

Product format: Frozen
Storage conditions: -80°C or colder

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 28: Emmons' modification of Sabouraud's agar/broth
Temperature: 26°C
Atmosphere: Aerobic
Incubation: Under light intensity of 2,000-3,000 lux

Handling Procedures

1. Thaw vial at room temperature.
2. Inoculate the entire contents of the vial into one #28 broth tube. A 0.5 mL aliquot may also be placed in a #28 agar slant.
3. Incubate tubes at 26°C under 2000-3000 LUX light for 1-2 weeks. Initial growth in the primary broth will be slow, but transfers from this growth will grow

more quickly and will grow well on agar.

4. Good growth, indicated by increased pigmentation in the broth or on the slant, should occur after one to two weeks of incubation. Examine cells microscopically to ensure that they are intact and healthy. At this time, additional test tubes or plates can be inoculated. A 5% inoculum is recommended (i.e. 5 mL of culture to 100 mL fresh medium).

Notes

Cells are extremely large, plump rods with internal vacuoles and long, spike-like cytoplasmic extensions. Cells are green pigmented and occur in pairs and palisading lines.

To minimize change in a culture, it is recommended that a frozen seed stock be established from early passage cells. This may be accomplished by propagating the strain under ideal conditions, utilizing recommended medium, temperature and light. Prepare a concentrated cell suspension, after good growth is achieved. If grown in broth, pellet the cells by centrifugation. Decant the supernatant and resuspend the pellet in fresh #28 broth using 1/10 or less of the original volume. For slant cultures, wash cells off the agar surface with a minimal amount of #28 broth so that a concentrated cell suspension is attained. Add 50% DMSO solution to the concentrated cell suspension so that the final concentration of DMSO in the suspension is 5%. Dispense small aliquots (0.5 to 1 mL) of the suspension into small sterile vials. Store the vials at -50°C or below.

When needed, remove vials from storage, thaw contents, and inoculate into recommended medium. A minimum of 0.2 mL of the thawed stock should be used to inoculate 5 mL of broth or 1 agar slant.

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

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: Unidentified Cyanobacterium texas (ATCC BAA-2462)

References

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

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