Trichormus variabilis Komarek and Anagnostidis

29413™

Description

Trichormus variabilis is a cyanobacterium that was isolated in 1964 from freshwater in Mississippi. This whole-genome sequenced strain has applications in biotechnology and is known to produce heterocysts.
Strain designation: [IUCC 1444; MSU A-37]
Deposited As: *Anabaena variabilis* Kutzing
Type strain: No

Storage Conditions

Product format: Freeze-dried
Storage conditions: 2°C to 8°C

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*

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(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 616: Medium BG-11 for blue-green algae
Temperature: 26°C
Incubation: Under light intensity of 2,000-3,000 lux

Handling Procedures

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1. Open vial according to enclosed instructions.
2. Using a single tube of #616 broth (5 to 6 ml), withdraw approximately 0.5 to 1.0 ml with a Pasteur or 1.0 ml pipette. Rehydrate the entire pellet.
3. Aseptically transfer this aliquot back into the broth tube. Mix well.
4. Use several drops of the suspension to inoculate a second tube of broth and a #616 slant.
5. Incubate tubes at 26°C under 2000-3000 LUX light. It is helpful to incubate test tubes in a slanted position to increase gas exchange in broth and to enhance exposure to light.

Notes

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

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner:
Trichormus variabilis Komarek and Anagnostidis
(ATCC 29413)

References

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

Warranty

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