



Chlorogonium elongatum Dangeard

50936™

Description

Type strain: No

Storage Conditions

Product format: Frozen

Storage conditions: -80°C or colder for 1 week, vapor phase of liquid nitrogen for long-term storage

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 5: Sporulation agar

ATCC Medium 351: Hutner's medium for Euglena

Temperature: 20-25°C

Culture system: Axenic

Handling Procedures

Storage and Culture Initiation

Frozen ampules packed in dry ice should either be thawed immediately or stored in liquid nitrogen. If liquid nitrogen storage facilities are not available, frozen ampules may be stored at or below -70°C for approximately one week. **Do not under any circumstance store frozen ampules at refrigerator freezer temperatures (generally -20°C).** Storage of frozen material at this temperature will result in the death of the

culture.

1. To thaw a frozen ampule, place in a 35°C water bath, until thawed (2-3 min). Immerse the ampule just sufficiently to cover the frozen material. Do not agitate the ampule.
2. Immediately after thawing, aseptically transfer the entire contents to a single 16 x 125 mm screw-capped test tube containing 5 mL of ATCC Medium 5 broth (or alternatively, 5 mL ATCC Medium 351 supplemented with 0.1% Na Acetate). Allow the tube to stand upright for one to several hours (or centrifuge very lightly for 3-5 min) to allow most cells to settle to the tube base.
3. Gently remove most of the supernatant (save in a secondary tube), then resuspend the remaining cells in additional fresh medium to a total volume of 5-6 mL.
4. Incubate tubes on a 15° horizontal slant with the cap screwed on loosely (loosened one half turn) at 20-25°C under a 14 hour light (~50 μ Einsteins/m²/s irradiance)/10 hour dark cycle.

Note: Some algae may grow poorly or not at all when recovered from the frozen state in broth media. In such cases, the algae should initially be recovered on agar media before eventually transferring to broth culture.

Culture maintenance:

1. Inoculate a tube of fresh broth medium with 0.25 mL from a growing culture at or near peak density.
2. Incubate tubes on a 15° horizontal slant with the cap screwed on loosely (loosened one half turn) at 20-25°C under a 14 hour light (~50 μ Einsteins/m²/s irradiance)/10 hour dark cycle.
3. Subculture as necessary (i.e., typically every 14-21 days in broth media).

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Chlorogonium elongatum* Dangeard (ATCC 50936)

References

References and other information relating to this material are available at

www.atcc.org.

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