Dictyostelium capillare Cavender et al.

MYA-4862™

Description

An ampoule containing viable cells (may include spores, cysts, and plasmodia) suspended in cryoprotectant.
Strain designation: 37A
Type strain: Yes
Genotype: Not available

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 579: LY Agar for Filobasidium
ATCC Medium 2432: wMY (weak Malt Yeast Extract)
ATCC Medium 2219: Corn meal agar, half-strength
Temperature: 20-25°C
Atmosphere: Aerobic

Handling Procedures

Frozen ampoules packed in dry ice should either be thawed immediately or stored in liquid nitrogen. If liquid nitrogen storage facilities are not available, frozen ampoules may be stored at or below -70°C for approximately one week. **Do not under any**

circumstance store frozen ampoules at refrigerator freezer temperatures (generally -20°C). Storage of frozen material at this temperature will result in the death of the culture.

1. A day prior to inoculation, streak live food source on the center of agar medium with a large X and incubate at 25°C to 30°C. Several replicates are recommended to prepare for optimum results.
2. To thaw a frozen ampoule, place in a **25°C to 30°C** water bath, until just thawed (**approximately 5 minutes**). Immerse the ampoule just sufficient to cover the frozen material. Do not agitate the ampoule.
3. Immediately after thawing, wipe down ampoule with 70% ethanol and aseptically transfer a few drops of inoculum directly into the medium containing the food source.
4. Incubate the culture at the propagation conditions recommended.
5. Inspect for growth of the inoculum/strain regularly. The sign of viability is noticeable typically after 7 - 10 days of incubation. However, the time necessary for significant growth will vary from strain to strain.

Morphology: On LY agar after 10 days at 20°C, Sorocarps erect clusteres and variable in height.

Notes

Type strain of the species.
Grown in two-member culture with *Escherichia coli* ATCC® 23437™ as food source.
Exposure to low light may help growth.

Additional, updated information on this product may be 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: *Dictyostelium capillare* Cavender et al. (ATCC MYA-4862)

References

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

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