Chilodonella uncinata Ehrenberg

50194™

Description

Strain designation: ATCC:0189:1
Deposited As: *Chilodonella uncinata* Ehrenberg
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 802: Sonneborn's Paramecium medium
Instructions for complete medium: ATCC Medium 802 inoculated with *Enterobacter aerogenes* (ATCC® 13048). To assure establishment and growth of ATCC® 50194, the bacterium listed should be used initially as the food source. Other bacteria may serve
Temperature: 25°C
Incubation: Grown with Enterobacter aerogenes ATCC 13048 and mixed bacteria

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 ampoules

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 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 it is thawed.
2. Add the thawed contents to a T-25 flask containing 10 mL of ATCC medium 802 bacterized with *Enterobacter aerogenes* (ATCC® 13048).
3. Incubate with the cap loose at 25°C.

Culture maintenance: Subculture every 14-28 days in the following manner:

1. Vigorously agitate the culture and aseptically transfer a 0.1 aliquot from a growing culture to 10.0 mL of fresh ATCC medium 802 bacterized with *Enterobacter aerogenes* (ATCC® 13048).
2. Incubate at 25°C with the cap on loosely.

Reagents for cryopreservation: Cryoprotective Solution

DMSO, 1.5 mL

Fresh growth medium w/o bacteria, 8.5 mL

Cryopreservation:

Harvest and Preservation:

1. Mix the components in the order listed. When the medium is added to the DMSO the solution will warm up due to chemical heat. Allow to cool.
2. Harvest cells from a culture in stationary phase (1-2 days after reaching peak density).
3. Gently discard most of the supernatant and vigorously agitate the flasks to detach the cells.
4. Determine the cell concentration using a hemacytometer. Adjust the concentration to 2 x 10^5/mL in fresh medium. If the concentration is too low, centrifuge at 200 x g for 5 minutes and resuspend the pellet with the supernatant to the desired volume.
5. Mix the cell preparation and the cryoprotective solution in equal portions.
6. Dispense in 0.5 mL aliquots into 1.0 - 2.0 mL sterile plastic screw-capped cryules (special plastic vials for cryopreservation).
7. Place vials in a controlled rate freezing unit. From room temperature cool at -1°C/min to -40°C. If freezing unit can compensate for the heat of fusion, maintain rate at -1 C/min through heat of fusion. At -40°C plunge ampules 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°C/min.)

8. Ampules are stored in either the vapor or liquid phase of a nitrogen refrigerator.
9. To establish a culture from the frozen place the vial in a 35°C water bath. Immerse the vial to a level just above the surface of the frozen material. Do not agitate the vial.
10. Immediately after thawing, do not leave in water bath, aseptically remove the contents of the ampule and inoculate the entire contents into a T-25 flask containing 10 mL of bacterized ATCC medium 802.
11. Incubate at 25°C with the cap on loosely.
12. Once the culture is established, follow the protocol for maintenance of culture.

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Chilodonella uncinata* Ehrenberg (ATCC 50194)

References

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

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