



Vorticella microstoma **Ehrenberg**

30897™

Description

Deposited As: *Vorticella microstoma* 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

Temperature: 25°C

Culture system: Xenic

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 sufficient to cover the frozen material. Do not agitate the ampule.
2. Immediately after thawing, aseptically transfer contents to a T-25 tissue culture flask containing 10 ml of fresh ATCC Medium 802 bacterized with *Enterobacter aerogenes* ATCC 13048. Incubate at 25°.

Culture maintenance:

1. When the culture is at or near peak density, vigorously agitate the culture to suspend cells. Attached cells may be detached using a sterile cotton swab or cell scraper.
2. Transfer approximately 0.30 ml to a new T-25 tissue culture flask containing 10 ml of fresh ATCC medium 802 bacterized with *Enterobacter aerogenes* ATCC 13048.
3. Incubate at 25°C.
4. Transfer every 7-10 days.

Cryopreservation:

1. When the culture is at or near peak density, vigorously agitate the culture to suspend cells. Attached cells may be detached using a sterile cotton swab or cell scraper.
2. Aseptically transfer the cell suspension to 15 ml plastic centrifuge tubes.
3. Centrifuge at ~300 x g for 5 min.
4. While cysts are centrifuging, prepare a 15% solution of DMSO in ATCC Medium 802. Cool on ice.
5. Remove the supernatant and pool the cell pellets to the final volume desired with fresh growth medium.
6. Combine the cell suspension with an equal volume of 15% DMSO cryoprotectant solution (prepared in step 4) to yield a final concentration of 7.5% DMSO.
7. Dispense in 0.5 ml aliquots into 1.0 - 2.0 ml sterile plastic screw-capped cryules (special plastic vials for cryopreservation). The time from the mixing of the cell preparation and DMSO solution to the start of the freezing process should be no less than 15 min and no longer than 30 min.
8. 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.

9. The frozen preparations should be stored in either the vapor or liquid phase of a nitrogen refrigerator. Frozen preparations stored below -130°C are stable indefinitely. Those stored at temperatures above -130°C are progressively less stable as the storage temperature is elevated. Vials can be stored between -80 and -70°C for no longer than one week.
10. To establish a culture from the frozen state place an ampule in a water bath set at 35°C. Immerse the ampule to a level just above the surface of the frozen material. Do not agitate the ampule.
11. Immediately after thawing, aseptically transfer contents to a T-25 tissue culture flask containing 10 ml of fresh ATCC Medium 802 bacterized with *Enterobacter aerogenes* ATCC 13048. Incubate at 25°.

Notes

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

While every effort is made to insure authenticity and reliability of strains on deposit, ATCC is not liable for damages arising from the misidentification or misrepresentation of cultures.

ATCC recommends that individuals contemplating commercial use of any culture first contact the originating investigator to negotiate an agreement. Third party distribution of this culture is discouraged, since this practice has resulted in the unintentional spreading of contaminated cultures.

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Vorticella microstoma* Ehrenberg (ATCC 30897)

References

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

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