ATCC

Product Sheet

Oxytricha trifallax (ATCC® 50532™)

Please read this FIRST

Storage Temp.
Frozen: -70°C or colder
Freeze-Dried: 2°C to 8°C
Live Culture: See Protocols Section

Biosafety Level
1

Intended Use

This product is intended for research use only. It is not intended for any animal or human therapeutic or diagnostic use.

Citation of Strain

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: *Oxytricha trifallax* (ATCC® 50532™)

American Type Culture Collection
PO Box 1549
Manassas, VA 20108 USA
www.atcc.org

800.638.6597 or 703.365.2700
Fax: 703.365.2750
Email: Tech@atcc.org

Or contact your local distributor

Description

Strain Designation: SLC 89
Deposited Name: *Oxytricha trifallax*
Depositor: GA Herrick
Isolation: Unknown

Propagation

Growth Conditions
Temperature: 20°C to 25°C
Culture system: Xenic, with *Enterobacter aerogenes* ATCC 13048 and unidentified microalgae as food sources

Medium
ATCC® Medium 802: Sonneborn's Paramecium medium

Instructions for Complete Medium
Media: ATCC Medium 802 inoculated with *Klebsiella pneumoniae* subsp. *pneumoniae* (ATCC® 700831™) or *Enterobacter aerogenes* (ATCC® 13048™). Culture also contains unidentified microalgae as food source.

Protocols

Handling of Live Culture
This strain is routinely shipped as a growing culture in a glass 16 x 125 mm screw-capped test tube. The volume of the cell suspension is approximately 5 mL. When the culture arrives remove it promptly from the shipping container. **Do not store the culture at refrigeration temperatures before handling.** To assure viability, immediately loosen the test tube cap and incubate upright at 25°C for at least one hour before observing the culture. There should be numerous active trophozoites in suspension. If the numbers are low or cysts are present, the culture may have been exposed to temperature extremes in transit. Regardless of the state of the culture, aseptically transfer a 0.5-1.0 mL aliquot to a 16 x 125 mm screw-capped test tube containing 5 mL of bacterized ATCC Medium 802. Incubate the parent and daughter cultures upright with the caps on loosely at 25°C.

Culture Maintenance
Subculture every week to a fresh tube of bacterized medium in the following manner:

1. Transfer 0.5-1.0 mL from a growing culture to 5.0 mL of bacterized ATCC medium 802.
2. Add 1.0 mL of bacterized ATCC medium 802 twice weekly. When the tube is filled to within one inch of the top, aspirate from the bottom of the tube and reduce the volume to 5.0 mL.
3. Incubate upright at 25°C with the cap on loosely.

Cryopreservation

Reagents
Cryoprotective Solution
DMSO, 2.0 mL
Fresh growth medium w/o bacteria, 8.0 mL

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.
2. Harvest cells from a culture that is at or near peak density by centrifugation at 125 x g for 5 min.
3. Adjust the concentration of cells at least 1 x 10^5/mL in fresh medium.
4. Mix the cell preparation and the cryoprotective solution in equal portions.
5. Dispense in 0.5 mL aliquots into 1.0 - 2.0 mL sterile plastic screw-capped cryules (special plastic vials for cryopreservation).
6. 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.
7. Ampules are stored in either the vapor or liquid phase of a nitrogen refrigerator.
8. To establish a culture from the frozen state add 1.0 mL bacterized ATCC medium 802 to the frozen

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ampule and place it 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.

9. Immediately after thawing, do not leave in water bath, aseptically remove the contents of the ampule and inoculate onto the surface of an ATCC medium 919 (non-nutrient agar) plate containing an overlay of 15.0 mL of bacterized ATCC medium 802.
10. Incubate at 25°C with the cap on loosely.
11. Once the culture is established, transfer 0.5 mL to 5.0 mL of bacterized ATCC medium 802.
12. Follow the protocol for maintenance of culture.

References

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

Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the current publication of the *Biosafety in Microbiological and Biomedical Laboratories* from the U.S. Department of Health and Human Services Centers for Disease Control and Prevention and National Institutes for Health.

ATCC Warranty

The viability of ATCC® products is warranted for 30 days from the date of shipment, and is valid only if the product is stored and cultured according to the information included on this product information sheet. ATCC lists the media formulation that has been found to be effective for this strain. While other, unspecified media may also produce satisfactory results, a change in media or the absence of an additive from the ATCC recommended media may affect recovery, growth and/or function of this strain. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

Disclaimers

This product is intended for laboratory research purposes only. It is not intended for use in humans.

While ATCC uses reasonable efforts to include accurate and up-to-date information on this product sheet, ATCC makes no warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. ATCC does not warrant that such information has been confirmed to be accurate.

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Please see the enclosed Material Transfer Agreement (MTA) for further details regarding the use of this product. The MTA is also available on our Web site at www.atcc.org

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

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