ATCC

Product Sheet

Spongomonas minima (ATCC® 50404™)

Please read this FIRST

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: *Spongomonas minima* (ATCC® 50404™)

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: AZ-3
Deposited Name: *Spongomonas minima* Dangeard
Depositor: TK Sawyer
Isolation:
soil from aviary at base of tree, Tucson Desert Museum, Tuscon, AZ, 1991

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.

Propagation

Growth Conditions
Temperature: 25.0°C
Protocol: ATCCNO: 50397 SPEC: Store vial in refrigerator until ready to open it. Open sealed outer glass vial according to instructions provided with the vial. Rehydrate the material by adding 0.5 ml of ATCC medium 802 bacterized with Enterobacter aerogenes ATCC 13048. (Bacterize the medium by inoculating it with a loopful of bacteria from an agar slant at least 24 hours prior to inoculatiion with the flagellate.) Aseptically remove the shredded filter paper pellet with sterile forceps and add a T-25 tissue flask containing 10 ml of bacterized medium. Aseptically remove the remainder of the fluid from the glass vial and add it to the T-25 flask. Screw the cap on tightly and incubate the flask at 25C. Transfer every 21-28 days by vigorously agitating the flask and aseptically transferring 0.1 ml to a fresh flask of bacterized medium.

Medium
ATCC® Medium 802: Sonneborn's Paramecium medium

Instructions for Complete Medium
ATCC Medium 802 inoculated with *Enterobacter aerogenes* (ATCC 13048)

Culture Maintenance
1. Agitate a culture at or near peak density by inverting several times. Encysted cells must be detached from the flask surface with a sterile cell scraper or cotton swab.
2. Aseptically transfer a 0.3 ml aliquot to a T-25 tissue culture flask containing 10 ml of fresh bacterized medium.
3. Screw cap on tightly and incubate at 25°C.
4. Subculture every 10-15d.

Cryopreservation

1. Harvest cysts from several cultures in stationary phase of growth. Detach cysts using a sterile cell scraper or cotton swab.
2. Aseptically transfer the cyst suspension to 15 ml plastic centrifuge tubes.
3. Centrifuge at ~800 x g for 5 min.
4. While cysts are centrifuging, prepare a 20% solution of DMSO in bacterized ATCC Medium 802. Cool on ice.
5. Remove the supernatant and pool the cell pellets to one-half the final volume desired with fresh growth medium.
6. Combine the cell suspension with an equal volume of 20% DMSO cryoprotectant solution (prepared in step 4) to yield a final concentration of 10% DMSO.
7. Dispense in 0.5 ml aliquots to 1.0-2.0 ml Nunc vials (special plastic vials for cryopreservation).
8. Place the vials in a controlled rate freezing unit. From room temperature cool at -1°C/min to -40°C. 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.).

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9. Store ampules in a liquid nitrogen refrigerator until needed.
10. To establish a culture from the frozen state, place a frozen ampule in a 35°C water bath just enough to cover the frozen material. Allow the ampule to thaw completely (2-3 min).
11. Immediately after thawing, aseptically remove the contents and transfer to a T-25 tissue culture flask containing 10 ml of fresh ATCC medium 802 inoculated with *Enterobacter aerogenes* (ATCC 13048).
12. Screw the cap on tightly and incubate at 25°C. Subculture every 10-15d.

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.

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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

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