ATCC

Product Sheet

Echinamoeba thermarum (ATCC® PRA-13™)

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: *Echinamoeba thermarum* (ATCC® PRA-13™)

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: OSB1
Deposited Name: *Echinamoeba thermarum* Baumgartner et al.
Depositor: KO Stetter, M Baumgartner
Isolation:
hot spring
Wyoming, United States
Isolation date: June, 1995

Propagation

Growth Conditions
Temperature: 50.0°C
Growth conditions: Grown with Rhodobacter sp., strain OSrt, ATCC BAA-867

Medium
ATCC® Medium 2338: Echinamoeba broth
ATCC® Medium 2338: Echinamoeba broth
ATCC® Medium 2339: Echinamoeba agar

Instructions for Complete Medium
ATCC medium 2338 inoculated with *Rhodobacter* sp. (ATCC® BAA-867).

Culture Maintenance
Subculture every week to fresh bacterized medium in the following manner:
1. For a plate culture, transfer cells with an inoculating loop to a fresh plate of previously-bacterized agar medium from a growing culture at or near peak density. For a broth culture, inoculate a fresh flask of previously-bacterized broth medium with 0.5 ml from a growing culture at or near peak density.
2. Incubate at 50°C. Keep the cap tightly sealed in the case of a flask culture.

Cryopreservation

Cryoprotective Solution

DMSO	1.5 ml
Fresh growth medium w/o bacteria	8.5 ml

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 filtration and centrifugation at 800 x g for 5 min.
3. Adjust the concentration of cells at least 2 x 10^6/ml in freshmedium.
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. 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.)
7. Ampules are stored in either the vapor or liquid phase of a nitrogen refrigerator.
8. To establish a culture from the frozen state 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. Immediately after thawing, do not leave in water bath, aseptically remove the contents of the ampule and inoculate into a T-25 tissue culture flask containing 10 ml bacterized ATCC medium 2338. Screw the cap on tightly and incubate the culture at 50°C. Alternatively, add the thawed contents of the ampule to the surface of a previously-bacterized Petri plate of ATCC medium 2338 agar. Wrap the plate culture with parafilm and incubate upright at 50°C.
9. Follow the protocol for maintenance of culture.

References

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

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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

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Disclaimers

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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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