ATCC

Product Sheet

# *Perkinsus marinus* (ATCC® 50766™)

**Please read this FIRST**

Biosafety Level
**2**

**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: *Perkinsus marinus* (ATCC® 50766™)

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:** L8
**Deposited Name:** *Perkinsus marinus* (Mackin et al.) Levine
**Depositor:** D Bushek
**Isolation:**
eastern oyster, Crassostrea virginica, Tambour Bay, LA, Gulf Coast

## 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
Duration: axenic
**Protocol:** ATCCNO: 50439 SPEC: When the frozen ampule arrives, place it directly into a 35C-water bath and transfer its thawed contents to 14 ml of fresh medium in a T-75 tissue culture flask. Maintain by removing 13 ml of cell suspension weekly and replacing with an equal volume of fresh medium. Alternately, aseptically transfer 1.0 ml of a growing culture to 13 ml of fresh medium in a T-75 tissue culture flask. Please note: This strain has wide tolerances to most environmental variables, i.e., temperature range: 15-35C, salinity range: 10-60 parts per thousand; pH range: 6.0-8.5. The distribution of the species worldwide is not known. In order to avert the introduction of this pathogen into non-endemic areas, all culture wastes must be treated as biohazardous and autoclaved prior to disposal. There are no known mechanisms for eradication of this pathogen from the environment.

**Medium**
ATCC® Medium 1886: Perkinsus broth medium

**Instructions for Complete Medium**
ATCC Medium 1886

**Culture Maintenance**
1. Vigorously agitate a culture at or near peak density and aseptically transfer a 0.1 ml aliquot to a T-25 tissue culture flask containing 10 ml of fresh complete medium.
2. Screw cap on tightly and incubate at 25°C.
3. Subculture every 10-14d.

## Cryopreservation

1. Harvest cells from several cultures which are in logarithmic to late stationary phase of growth. Vigorously agitate to suspend the cells.
2. Aseptically transfer the cell suspension to 15 ml plastic centrifuge tubes.
3. Centrifuge at 200 x g for 5 min.
4. While cells are centrifuging, prepare a 20% solution of DMSO in ATCC Medium 1886.
5. Remove the supernatant and pool the cell pellets into a final volume of 4.5 ml.
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.
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

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containing 10 ml of fresh ATCC medium 1886.

12.Screw the cap on tightly and incubate at 25°C. Observe the culture daily. Transfer the culture when many trophozoites are observed.

## References

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

## Biosafety Level: 2

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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