



Product Sheet

# *Naegleria sturti* (ATCC®) 50356™)

## 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: *Naegleria sturti* (ATCC® 50356™)

## Description

**Strain Designation:** SWL NG-277  
**Deposited Name:** *Naegleria* sp.  
**Depositor:** BS Robinson  
**Isolation:**

## Propagation

### Growth Conditions

**Max Temperature:** 30.0°C  
**Min Temperature:** 25.0°C

### Medium

ATCC® Medium 997: Fresh water ameba medium

## Instructions for Complete Medium

ATCC medium 997 grown with mixed bacteria

## Culture Maintenance

1. Remove an agar block (~5 mm<sup>2</sup>), with trophozoites or cysts, from the edge of an agar plate culture and place it in a test tube containing 1 ml of sterile ATCC medium 1325. Agitate to suspend cells from the agar block. Transfer 0.25 ml of the solution to center of each of two fresh plates and spread evenly with a spread bar.
2. Wrap the entire edge of the plate with parafilm and incubate upright at 25°C.
3. Repeat steps 1-3 at 10-14 d intervals.

## Cryopreservation

1. Allow the cells to encyst. To detach cysts from the plate flush the surface with 5 ml fresh ATCC medium 1323 (Page's Balanced Salt Solution). Rub the surface of the plate with a spread bar to detach adhering amoebae.
2. Transfer the cyst suspension to a sterile centrifuge tube.
3. If the cyst concentration does not exceed 2 x 10<sup>6</sup> cysts/ml adjust the suspension to that concentration. To adjust the concentration, centrifuge at 600 x g for 5 min and resuspend the pellet in the volume of fresh medium required to yield 2 x 10<sup>6</sup>.
4. While cells are centrifuging prepare a 15% (v/v) solution of sterile DMSO as follows: Add the required volume of DMSO to a glass screw-capped test tube and place it in an ice bath. Allow the DMSO to solidify. Add the required volume of refrigerated medium. Dissolve the DMSO by inverting the tube several times.

## References

References and other information relating to this product are available online at [www.atcc.org](http://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.

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## **Disclaimers**

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Additional information on this culture is available on the ATCC web site at [www.atcc.org](http://www.atcc.org).

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