ATCC

Product Sheet

# *Paramecium tetraurelia* (ATCC® 50080™)

**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: *Paramecium tetraurelia* (ATCC® 50080™)

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:** stock d4-150
**Deposited Name:** *Paramecium tetraurelia* Sonneborn
**Depositor:** JR Preer
**Isolation:**
nitrosoguanidine-induced mutant of stock 51, 1973 (?)
**Genotype:** PaC

## Propagation

**Growth Conditions**
**Temperature:** 25.0°C
**Protocol:** ATCCNO: 30300 SPEC: This strain is shipped as a growing test tube culture. Upon arrival, remove test tube from sealed plastic envelope, remove plastic seal from cap, and loosen the cap one half turn. Add 1.0 ml of ATCC medium 802 bacterized with Enterobacter aerogenes ATCC 13048 twice weekly. When the tube is filled to within one inch of the top, decant leaving 5.0 ml in the original tube. Subcultures are established by transferring 0.5 ml of a growing culture to 5.0 ml of bacterized ATCC medium 802 in a 20 x 120 mm test tube.

**Medium**
ATCC® Medium 802: Sonneborn's Paramecium medium

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

**Culture Maintenance**
Subculture every two months to a fresh tube of bacterized medium in the following manner:
1. Transfer 0.5 ml from a growing culture to 5.0 ml of ATCC medium 802 bacterized with *Enterobacter aerogenes* (ATCC® 13048).
2. Add 1.0 ml of ATCC medium 802 bacterized with *Enterobacter aerogenes* ATCC 13048 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 caps on loosely.

## Cryopreservation

Cryoprotective Solution

| | |
|---|---|
| DMSO | 1.5 ml |
| Fresh growth medium w/o bacteria | 7.5 ml |
| $MgCl_2$ (0.5 mM) | 0.5 ml |
| $CaCl_2$ (0.5 mM) | 0.5 ml |

1. Mix the components in the order listed. Before adding the $MgCl_2$ and the $CaCl_2$ allow the solution to return to room temperature. 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 200 x g for 1 min.
3. Adjust the concentration of cells to 2 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 ATCC medium 802 to the frozen 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.

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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.

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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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