ATCC

Product Sheet

Thermoplasma acidophilum (ATCC® 25905™)

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: *Thermoplasma acidophilum* (ATCC® 25905™)

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

Designation: 122-1B2 [AMRC C165, DSM 1728]
Deposited Name: *Thermoplasma acidophilum* Darland et al.

Propagation

Medium
ATCC® Medium 569: Thermoplasma medium

Growth Conditions
Temperature: 60.0°C

Propagation Procedure
1. Keep cryovial frozen until ready for use, then thaw slowly at room temperature.
2. Add 1.5 ml of #569 broth to the vial. Make serial dilutions from this suspension by passing 0.5 ml into a tube containing 4.5 ml of the same medium. Repeat this procedure for a total of 7 to 8 passages.
3. Incubate the tubes at 55-60°C. *Thermoplasma acidophilum* requires oxygen, so slant the rack of tubes to provide greater surface area.
4. Growth appears in the first few tubes in 3 to 5 days. Subsequent transfers grow more rapidly, and should be passaged every 2 to 3 days. The inoculum size is 10 to 20%. Once stationary phase is reached, there is a drastic loss in viability. Glassware should be free of any trace of detergent or soap. Cells do not tolerate refrigeration.
5. For long term storage, freeze in liquid nitrogen. It is recommended that actively growing cells are harvested by centrifugation at 9000 rpm for 30 minutes, the supernatant removed, and the pellet resuspended in a smaller amount of fresh growth medium with an equal volume of 20% glycerol (10% F.C.) added. Small amounts of this suspension are aliquoted into small cyrovials and immediately placed in liquid nitrogen storage.

Notes

This organism does not have a cell wall and grows by budding. Under 1000x magnification the cells appear as spheres and pleomorphic filaments.

Additional information on this culture is available on the ATCC® web site at www.atcc.org.

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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