



Product Sheet

Thermococcus pacificus (ATCC® 700653™)

Please read this FIRST



Storage Temp.
Frozen: -80°C or colder
Freeze-Dried: 2°C to 8°C
Live Culture: See Propagation Section



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: *Thermococcus pacificus* (ATCC® 700653™)

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: DSM 10394 [P-4]

Deposited Name: *Thermococcus pacificus* Miroshnichenko et al.

Propagation

Medium

ATCC® Medium 2104: Marine *Thermococcus* medium

Growth Conditions

Temperature: 85°C

Atmosphere: Anaerobic, 100% N₂

Propagation Procedure

1. Open vial according to enclosed instructions.
2. Obtain a single tube of #2104 broth (5 to 6 mL), and under anaerobic conditions, withdraw approximately 0.5 to 1.0 mL with a Pasteur or 1.0 mL pipette. Re-hydrate the pellet.
3. Aseptically transfer this aliquot back into the broth tube. Mix well.
4. After 4 to 7 days of incubation, turbidity should be observed.
5. Transfers can now be made to other tubes of broth, slants, and/or plates

ANAEROBIC CONDITIONS:

Anaerobic conditions for transfer may be obtained by either of the following:

- Use of an anaerobic gas chamber, or
- Placement of test tubes under a gassing cannula system hooked to anaerobic gas or.
- Exchanging the headspace in stoppered culture tubes for the appropriate anaerobic gas

Anaerobic conditions for incubation may be obtained by any of the following:

- Loose screw/caps on test tubes in anaerobic chamber,
- Loose screw/caps on test tubes in an activated anaerobic Gas Pak jar, or
- Use of sterile butyl rubber stoppers on test tubes so that an anaerobic gas headspace is retained.

Notes

The cells are irregular cocci that grow well at pH 6.5-7.5. The optimal temperature for growth is between 80°C-88°C, but growth is also observed at 70°C and 95°C. The ATCC suggests the anaerobic technique that utilizes Hungate tubes because growth is enhanced when tubes are pressurized (20-40 psi). 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.

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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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