



# ***Thermococcus pacificus*** **Miroshnichenko et al.**

**700653™**

## **Description**

**Strain designation:** DSM 10394 [P-4]

**Deposited As:** *Thermococcus pacificus* Miroshnichenko et al.

**Type strain:** Yes

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## **Storage Conditions**

**Product format:** Frozen

**Storage conditions:** -80°C or colder

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## **Intended Use**

This product is intended for laboratory research use only. It is not intended for any animal or human therapeutic use, any human or animal consumption, or any diagnostic use.

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## **Biosafety Level 1**

ATCC determines the biosafety level of a material based on our risk assessment as guided by the current edition of *Biosafety in Microbiological and Biomedical Laboratories (BMBL)*, U.S. Department of Health and Human Services.

It is your responsibility to understand the hazards associated with the

material per your organization's policies and procedures as well as any other applicable regulations as enforced by your local or national agencies.

ATCC highly recommends that appropriate personal protective equipment is always used when handling vials. For cultures that require storage in liquid nitrogen, it is important to note that some vials may leak when submersed in liquid nitrogen and will slowly fill with liquid nitrogen. Upon thawing, the conversion of the liquid nitrogen back to its gas phase may result in the vial exploding or blowing off its cap with dangerous force creating flying debris. Unless necessary, ATCC recommends that these cultures be stored in the vapor phase of liquid nitrogen rather than submersed in liquid nitrogen.

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## Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at [www.atcc.org](http://www.atcc.org).

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## Growth Conditions

**Medium:**

ATCC Medium 2104: Marine *Thermococcus* medium

**Temperature:** 85°C**Atmosphere:** 100% N<sub>2</sub>

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## Handling Procedures

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.

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## 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](http://www.atcc.org).

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## Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Thermococcus pacificus* Miroshnichenko et al. (ATCC 700653)

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## References

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

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