



***Thermaerobacter marianensis* Takai et al.**

700841™

Description

Strain designation: JCM 10246 [7p75a, DSM 12885]

Deposited As: *Thermaerobacter marianensis* Takai et al.

Type strain: Yes

Storage Conditions

Product format: Freeze-dried

Storage conditions: 2°C to 8°C

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.

BSL 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.

Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at www.atcc.org.

Growth Conditions

Medium:

ATCC Medium 2: Marine agar 2216 or marine broth 2216

Temperature: 70°C

Atmosphere: Aerobic

Handling Procedures

1. Open the vial.
 2. Using a single tube of #2 broth (5 to 6 mL), withdraw approximately 0.5 to 1.0 mL with a Pasteur or 1.0 mL pipette. Rehydrate the entire pellet.
 3. Aseptically transfer the contents of the vial back into the broth tube.
 4. Use several drops of this suspension to inoculate a second tube of broth.
 5. Incubate both tubes at 70°C for 24 hrs.
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Notes

Thermaerobacter marianensis cells are Gram-variable (negative in stationary phase), non-spore-forming and non-motile rods. Can be grown on slants at 70°C. This strain is very sensitive to temperature after growth. If left at room temperature for 2-3 days, the cells lose viability. The cells can be kept at 70°C for up to two weeks. For preservation, use DMSO (5% final concentration). Do not use glycerol as a cryoprotectant.

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

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Thermaerobacter marianensis* Takai et al. (ATCC 700841)

References

References and other information relating to this material are available at www.atcc.org.

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Revision

This information on this document was last updated on 2025-09-04

Contact Information

ATCC

10801 University Boulevard

Manassas, VA 20110-2209

USA

US telephone: 800-638-6597

Worldwide telephone: +1-703-365-2700

Email: tech@atcc.org or contact your local distributor
