



# ***Hydrogenothermus marinus* Stohr et al.**

**BAA-483™**

## **Description**

**Strain designation:** JCM 10974 [DSM 12046, VM1]

**Deposited As:** *Hydrogenothermus marinus* Stohr et al.

**Type strain:** Yes

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## **Storage Conditions**

**Product format:** Freeze-dried

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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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## **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.

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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 2330: *Hydrogenothermus marinus* medium

**Temperature:** 65°C**Atmosphere:** 80% H<sub>2</sub>, 20% CO<sub>2</sub>

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## Handling Procedures

1. Sterilize the top of the Hungate test tube with 70% ethanol.
2. Exchange gas in the Hungate test tube for 80% H<sub>2</sub> - 20% CO<sub>2</sub>.
3. Open vial according to enclosed instructions.
4. Under anaerobic conditions, rehydrate the entire cell pellet with a small amount of #2330 broth. Transfer this aliquot back into the tube of broth.

5. Additional #2330 broth tubes can also be inoculated with 0.5 ml from the original broth.

6. Over pressurize the headspace to 150 kPa using a gas mixture of 80% H<sub>2</sub> 20% CO<sub>2</sub>. A syringe and needle can be used to introduce 1-2% O<sub>2</sub> into the headspace.

7. Incubate at 65°C for 24 to 48 hours.

8. Growth is evident by slight turbidity in the broth. Cells can be sensitive to hydrogen sulfide (black precipitate) being produced during incubation.

#### ANAEROBIC CONDITIONS:

a. Balch tube refers to a special type of test tube that is designed to be pressurized and is suited for anaerobic work. The Balch test tubes can be purchased from Bellco Glass ([www.bellcoglass.com](http://www.bellcoglass.com); stock no. 2048-00150).

b. Syringes can be made anaerobic by one of two methods. 1. Displace the dead space in the syringe with a sterile

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## Notes

Cells are highly motile gram-negative rods.

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: *Hydrogenothermus marinus* Stohr et al. (ATCC BAA-483)

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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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