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Description

Strain designation: 68-1

Deposited As: *Methylomonas methanica* Whittenbury and Krieg

Type strain: No

Storage Conditions

Product format: Frozen

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

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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 1306: Nitrate mineral salts medium (NMS)

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ATCC Medium 784: AMS (ammonium mineral salts)

Temperature: 28°C

Handling Procedures

- 1. Allow vial to thaw at room temperature.**
- 2. Transfer thawed cells to a single tube of 1306 or 784 broth.**
- 3. Aseptically transfer 0.5ml of the inoculated broth to fresh tube of 1306 or 784 broth and mix well. Transfer 0.1 ml of inoculated broth to a #1306 and/or 784 slant and plate. In addition, plate the inoculated broth tube (0.1 ml) onto non-selective medium (to test for purity). When using Medium #1306, use a gas mixture of 50% methane and 50% air. With Medium #784 no special gas is required.**

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4. Incubate the culture at 30°C for 48 to 72 hours. When using Medium #1306, the culture needs to be fed a mixture of 50% methane and 50% air every 48 to 72 hours for best results.

5. Growth should be detected within 2 to 4 weeks. No growth should be detected on the non-selective plates.

Notes

Microscopic examination shows the cells to be motile cocci-bacillus, occurring singly and in pairs. On #1306 or #784 plates, colonies are small (pinpoint), red, rounded, and moist.

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: 51626 (ATCC 51626)

References

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

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