



Methylococcus capsulatus Foster and Davis

19069™

Description

Type strain

Strain designation: Texas

Deposited As: *Methylococcus capsulatus* Foster and Davis

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 1306: Nitrate mineral salts medium (NMS)

Temperature: 37°C

Atmosphere: 50% CH₄, 50% Air

Handling Procedures

1. Open vial according to enclosed instructions.
2. Using a single tube of broth, aseptically transfer 0.5 mL to the vial and rehydrate the pellet.
3. Aseptically transfer this aliquot back to the broth tube and mix well. Transfer 0.1 mL to slants. Plate the rehydrated culture (0.1 mL) onto non selective medium (to test for purity). Exchange the headspace with a gas mixture of

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50% methane and 50% air.

4. Incubate the culture at 37°C. The culture needs to be fed a mixture of 50% methane and 50% air every 24 hours for best results.
 5. Growth should be detected within 5 to 7 days. No growth should occur on the non-selective plates.
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Notes

Shaking may improve growth.

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: *Methylococcus capsulatus* Foster and Davis (ATCC 19069)

References

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

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Revision

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