



***Methanoculleus bourgensis* (Ollivier et al.) Maestrojuan et al. emend. Asakawa and Nagaoka**

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Description

Strain designation: RC/ER [DSM 2772, OCM 52]

Deposited As: *Methanogenium olentangyi* Corder et al.

Type strain: No

Storage Conditions

Product format: Test tube

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

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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 1343: General salts medium for estuarine methanogens

Temperature: 37°C**Atmosphere:** 80% H₂, 20% CO₂

Handling Procedures

1. Sterilize the top of the Balch tube by spraying it with 70% ethanol and then flaming the top.
2. If needed, exchange the gas in the test tube for 80% H₂-20% CO₂.

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3. If the medium is pink (see discussion about resazurin) add 2.0 ml of reducing agent (3% cysteine, stock solution) per 100 ml of medium. Let the medium sit at room temperature for 10 to 20 minutes, until the resazurin becomes colorless, before inoculating.

4. Open the test tube and immediately place it under a stream of sterile gas, 80% H₂-20% CO₂ to maintain anaerobicity.

6. Growth should be detected in the broth within 48-72 hours. No growth should be detected on the aerobic plate or broth.

ANAEROBIC CONDITIONS:

a. Balch tubes (available from Bellco Glass, Vineland, NJ; are specially designed for anaerobic work and use an aluminum crimp cap to hold a rubber stopper in place. Needles can easily be inserted through the stopper, and the tubes can be pressurized up to 2 atm. Alternatively, serum vials may be used, or screw cap tubes with butyl rubber stoppers, in the latter case the stopper may be removed and the tube placed under a cannula system that dispenses sterile, oxygen free gas for addition of reducing agents or inoculation.

b. Resazurin is a commonly used redox indicator that is pink when the redox potential is above 50 mv, and colorless when the redox potential is below 110 mv. i.e. highly reducing. Most strict anaerobes require this low redox potential for optimum growth.

c. To obtain a fully reduced medium, it is necessary that the medium be anoxic and that a reducing agent be added. Common reducing agents are sodium sulfide, cysteine, dithiothreitol, and titanium citrate.

1. Displace the dead space in the syringe with a sterile

2. Displace the dead space in the syringe with a

Notes

This strain is cited as the type strain of *Methanoculleus olentangyi* (3).

Additional information on this culture is available on the ATCC® web site at

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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: *Methanoculleus bourgensis* (Ollivier et al.) Maestrojuan et al. emend. Asakawa and Nagaoka (ATCC 35293)

References

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

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