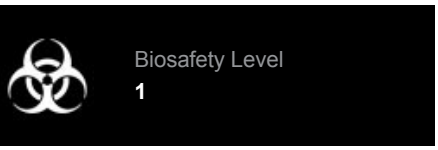
ATCC

Product Sheet

Methanosarcina mazei (ATCC® BAA-159™)

Please read this FIRST



Intended Use

This product is intended for research use only. It is not intended for any animal or human therapeutic or diagnostic use.

Citation of Strain

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: *Methanosarcina mazei* (ATCC® BAA-159™)

American Type Culture Collection
PO Box 1549
Manassas, VA 20108 USA
www.atcc.org

800.638.6597 or 703.365.2700
Fax: 703.365.2750
Email: Tech@atcc.org

Or contact your local distributor

Description

Designation: DSM 3647 [Go1, OCM 88]
Deposited Name: *Methanosarcina mazei* (Barker) Mah and Kuhn

Propagation

Medium
ATCC® Medium 2467: MS - OCM Base Medium

Growth Conditions
Temperature: 30.0°C
Atmosphere: Anaerobic; 80%H_2-20%CO_2

Propagation Procedure
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% H_2 20% CO_2; do not go above 5 PSI.
3. If the medium is pink (see discussion about resazurin) add 0.1 ml reducing agent (1.5% $Na_2S{\cdot}9H_2O$, stock solution) per each 5-6 ml of medium. Let the medium sit at room temperature for 10 to 20 minutes - until the resazurin becomes colorless - before inoculating.
4. When the Balch tube is ready to inoculate, open the vial thaw in an oxygen free environment.
5. For inoculation, use a 1.0 ml syringe tipped with 22 gauge needle. Make the syringe anaerobic (see discussion below) and draw the thawed cell suspension up into the syringe. Transfer the cell suspension into a tube of pre reduced #2467 broth and incubate at 30ºC. Secondary tubs can be inoculated by transferring 0.5 ml of the primary tube. Plate 0.1 ml of the inoculated culture onto a non-selective medium and incubate aerobically at 30ºC. Inoculate a nonselective anaerobic and aerobic broth and incubate at 30ºC
6. Growth should be detected in the #2467 broth within 5 to 7 days. The gas in the head space of the Balch tube should be exchanged for fresh 80% H_2 20% CO_2 every 2 to 3 days. There should be no growth detected on the aerobic plate. There should be no growth in the nonselective aerobic or anaerobic broth.

Notes

If acetate or methanol is included in the medium then the 80% Hydrogen-20% Carbon dioxide gas does not need to be exchanged.

Additional information on this culture is available on the ATCC® web site at www.atcc.org.
Resolution: 1000X

References

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

Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the current publication of the *Biosafety in Microbiological and Biomedical Laboratories* from the U.S. Department of Health and Human Services Centers for Disease Control and Prevention and National Institutes for Health.

ATCC Warranty

The viability of ATCC® products is warranted for 30 days from the date of shipment, and is valid only if the product is stored and cultured according to the information included on this product information sheet. ATCC lists the media formulation that has been found to be effective for this strain. While other, unspecified media may also produce satisfactory results, a change in media or the absence of an additive from the ATCC recommended media may affect recovery, growth and/or function of this strain. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

Disclaimers

This product is intended for laboratory research purposes only. It is not intended for use in humans.

While ATCC uses reasonable efforts to include accurate and up-to-date information on this product sheet, ATCC makes no warranties or representations as to its accuracy. Citations from scientific literature

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1

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This product is sent with the condition that you are responsible for its safe storage, handling, and use. ATCC is not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to insure authenticity and reliability of strains on deposit, ATCC is not liable for damages arising from the misidentification or misrepresentation of cultures.

Please see the enclosed Material Transfer Agreement (MTA) for further details regarding the use of this product. The MTA is also available on our Web site at www.atcc.org

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