



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™)

## 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<sub>2</sub>-20% CO<sub>2</sub>

### 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<sub>2</sub>-20% CO<sub>2</sub>; 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<sub>2</sub>S·9H<sub>2</sub>O, 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 30°C. 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 30°C. Inoculate a nonselective anaerobic and aerobic broth and incubate at 30°C
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<sub>2</sub>-20% CO<sub>2</sub> 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](http://www.atcc.org).

Resolution: 1000X

## References

References and other information relating to this product are available online at [www.atcc.org](http://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.

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## 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,

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