




Product Sheet


# *Methylococcus capsulatus* (ATCC® 33009™)

Please read this **FIRST**



Storage Temp.  
**Frozen: -80°C or colder**  
**Freeze-Dried: 2°C to 8°C**  
**Live Culture: See Propagation**

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Biosafety Level  
**1**

## 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: *Methylococcus capsulatus* (ATCC® 33009™)

American Type Culture Collection  
PO Box 1549  
Manassas, VA 20108 USA  
[www.atcc.org](http://www.atcc.org)

800.638.6597 or 703.365.2700  
Fax: 703.365.2750  
Email: [Tech@atcc.org](mailto:Tech@atcc.org)

Or contact your local distributor

## Description

**Designation:** NCIB 11132 [Bath, MC]

**Deposited Name:** *Methylococcus capsulatus* Foster and Davis

**Product Description:** Genome sequenced strain

## Propagation

### Medium

ATCC® Medium 1306: Nitrate mineral salts medium (NMS)

ATCC® Medium 784: AMS (ammonium mineral salts)

### Growth Conditions

**Temperature:** 45°C

**Atmosphere:** Under a gas mixture of 50% air, 50% methane

### Propagation Procedure

1. Immediately prior to working with the culture place the frozen vial at room temperature to thaw.
2. Aseptically transfer the entire contents of the vial into a single broth tube (5-6 mL) of ATCC medium 1306. Additional tubes can be inoculated by transfer of 0.1 mL to slants and 0.5 mL to broth tubes. Plate the rehydrated culture (0.1 mL) onto nonselective medium (to test for purity). When using Medium #1306, use a gas mixture of 50% methane and 50% air.
3. Incubate the culture at 45°C for 3 to 5 days. When using Medium #1306, the culture needs to be fed a mixture of 50% methane and 50% air every 24 to 48 hours for best results.
4. Growth should be detected within 3 to 5 days. No growth should occur on the non-selective plates.

## Notes

Medium #784 broth supports growth of this strain, but better growth occurs in medium #1306. Growth can be detected by the presence of turbidity in the broth. To detect early growth the culture may have to be examined microscopically.

Additional information on this culture is available on the ATCC® web site at [www.atcc.org](http://www.atcc.org).

## 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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## ***Methylococcus capsulatus*** **(ATCC® 33009™)**

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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](http://www.atcc.org)

Additional information on this culture is available on the ATCC web site at [www.atcc.org](http://www.atcc.org).

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