



# Methylocystis sp.

49243™

Product Sheet

## Description

**Strain designation:** UCLA

**Deposited As:** *Methylosinus trichosporium* (ex Whittenbury et al.) Bowman et al.

**Type strain:** No

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## Storage Conditions

**Product format:** Freeze-dried

**Storage conditions:** 2°C to 8°C

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## 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.

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## 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.

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## Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at [www.atcc.org](http://www.atcc.org).

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## Growth Conditions

### Medium:

ATCC Medium 1683: Ammonium mineral salts medium without methanol

**Temperature:** 25°C

**Atmosphere:** 50% CH<sub>4</sub>, 50% Air

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## 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 entire 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). When using Medium #1683, you must use a gas mixture of 50% methane and 50% air.
4. Incubate the culture at 25°C for 5 to 7 days. 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 3 to 5 days. No growth should be detected on the non-selective plates.

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## Notes

Additional information on this culture is available on the ATCC® web site at [www.atcc.org](http://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: *Methylocystis* sp. (ATCC 49243)

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## References

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

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## Revision

This information on this document was last updated on 2024-10-24

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