



Product Sheet

Methylocystis sp. (ATCC® 49242™)

Please read this **FIRST**



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



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: *Methylocystis* sp. (ATCC® 49242™)

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: Rockwell

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

Propagation

Medium

ATCC® Medium 1683: Ammonium mineral salts medium without methanol

Growth Conditions

Temperature: 25°C

Atmosphere: 50% methane

Propagation Procedure

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 use a gas mixture of 50% methane and 50% air.
4. Incubate the culture at 25°C for 48 to 72 hours. When using Medium #1683 the culture needs to be fed a mixture of 50% methane and 50% air every 48-72 hours for best results.
5. Growth should be detected within 3 to 5 days. No growth should be detected on the non-selective plates. Growth can be obtained on #1683 plates when incubated under an atmosphere of 50% air 50% methane. It takes 7-10 days for colonies to form on plates. The colonies are pin point and white.

Notes

Microscopic examination shows the cells to be non-motile rods in single and pairs.

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

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.

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***Methylocystis* sp. (ATCC® 49242™)**

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

Additional information on this culture is available on the ATCC web site at www.atcc.org.
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