



Product Sheet

Desulfotomaculum halophilum (ATCC® 700650™)

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: *Desulfotomaculum halophilum* (ATCC® 700650™)

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 11559 [SEBR 3139]

Deposited Name: *Desulfotomaculum halophilum* Tardy-Jacquenod et al.

Propagation

Medium

ATCC® Medium 2118: *Desulfotomaculum halophilum* medium

Growth Conditions

Temperature: 30.0°C

Atmosphere: Anaerobic

Propagation Procedure

1. Open vial according to enclosed instructions.
2. Under anaerobic conditions, withdraw 0.5 ml of recommended broth from a single test tube (5 to 6 ml) and rehydrate the vial contents.
3. Aseptically transfer this aliquot back into the broth tube. A slant and a pre-reduced blood plate may also be inoculated with 0.1 ml each of the cell suspension. An aerobic blood plate may also be streaked to check for purity.
4. Incubate tubes and plate under anaerobic conditions at 37°C. Incubate blood plate aerobically at 37°C.
5. Within 48 hours, growth should be evident by turbidity in the broth. On agar surfaces, colonies are circular, entire, smooth, white, opaque and convex with no hemolysis. No growth should occur on the blood agar plate incubated aerobically.

ANAEROBIC CONDITIONS:

Anaerobic conditions for transfer may be obtained by either of the following:

- Use of an anaerobic gas chamber, or
- Placement of test tubes under a gassing cannula system hooked to anaerobic gas.

Anaerobic conditions for incubation may be obtained by any of the following:

- Loose screw caps on test tubes in anaerobic chamber,
- Loose screw caps on test tubes in an activated anaerobic gas pack jar, or
- Use of sterile butyl rubber stoppers on test tubes so that an anaerobic gas headspace is retained.

Notes

Desulfotomaculum halophilum is a halophilic endospore-forming, sulfate-reducing bacterium isolated from oilfield brine. This strain is composed of long, straight to curved rods. The Gram stain indicates Gram-negative but the cell wall is Gram-positive. The appearance of iron deposits on the side of test tubes indicates high cell number. The growth period is 3-5 days. The three anaerobic gases above can be used for propagation.

Always use freshly prepared pre-reduced media or pre-reduced media that has been previously prepared but stored under anaerobic conditions. Resazurin in the media is a color indicator for anaerobic conditions. Observance of pink color in medium before use or during incubation shows anaerobic conditions have not been met and oxidation has occurred. Medium should be discarded.

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.

ATCC Warranty

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media or the absence of an additive from the ATCC recommended media may affect recovery, growth and/or function of this product. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

Disclaimers

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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

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