



Product Sheet

Desulfotomaculum reducens (ATCC® BAA- 1160™)

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 reducens* (ATCC® BAA-1160™)

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
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Or contact your local distributor

Description

Designation: MI-1

Deposited Name: *Desulfotomaculum reducens*

Propagation

Medium

ATCC® Medium 1249: Modified Baar's medium for sulfate reducers

Growth Conditions

Temperature: 37.0°C

Atmosphere: Anaerobic

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% N₂-20% CO₂
3. Add 0.1 ml of sodium sulfide per each 10 ml of medium. Let the medium sit at room temperature for 30 minutes.
4. When the Balch tube is ready to inoculate, open the vial according to enclosed instructions. Use an anaerobic 1.0 ml syringe tipped with 22-gauge needle to withdraw 0.5 ml #1249 broth and use to rehydrate the entire pellet.
5. Using the same syringe, transfer the rehydrated cell suspension back to a tube of #1249 broth. Mix well. Additional broth tubes may be inoculated from this culture.
6. Plate 0.1 ml on a non-selective medium to check for aerobic and anaerobic contamination.
7. Incubate tubes and one plate under an anaerobic atmosphere at 37°C. Incubate non-selective plate aerobically at 37°C to check for purity.
8. In 48 hours, growth should be evident by turbidity in the broth. No growth should occur on the non-selective plate incubated aerobically.

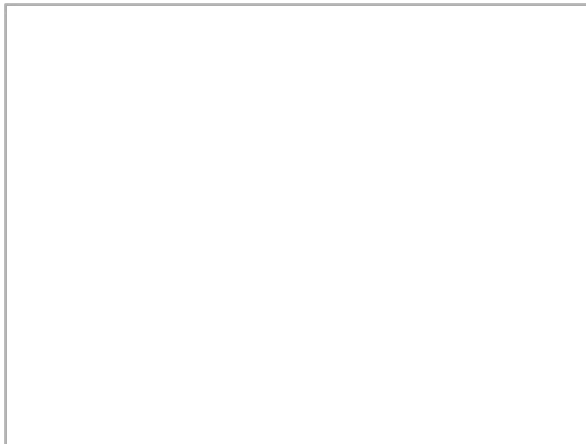
ANAEROBIC CONDITIONS:

- a. Balch tubes (available from Bellco Glass, Vineland, NJ) are specially designed for anaerobic work and use an aluminum crimp cap to hold a rubber stopper in place. Needles can easily be inserted through the stopper, and the tubes can be pressurized to 2 atm. Alternatively, serum vials may be used, or screw cap tubes with butyl rubber stoppers, in the latter case the stopper may be removed and the tube placed under a cannula system that dispenses sterile, oxygen free gas for addition of reducing agents or inoculation.
- b. To obtain a fully reduced medium, it is necessary that the medium be anoxic and that a reducing agent be added. Common reducing agents are sodium sulfide, cysteine, dithiothreitol, and titanium citrate.

Notes

Cells are gram negative, motile rods. For long term storage of a growing culture, the organism can be incubated at 4°C in Modified Baars Medium with NaCl (2.5%). With this medium and temperature, the culture can be stored up to two years.

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



References



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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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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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