



Product Sheet

Desulfovibrio alaskensis (ATCC® 14563™)

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: *Desulfovibrio alaskensis* (ATCC® 14563™)

Description

Deposited Name: *Desulfovibrio aestuarii* (van Delden) ZoBell

Propagation

Medium

ATCC® Medium 1250: Modified Barr's Medium for sulfate reducers with 2.5% NaCl

Growth Conditions

Temperature: 30°C

Atmosphere: Anaerobic gas mixture, 80% N₂ - 10% CO₂ - 10% H₂

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 - 10% CO₂ - 10% H₂
3. Add 0.1 mL of reducing agent (Sodium sulfide, stock solution) per each 10 mL of medium. Let the medium sit at room temperature for 30 minutes to fully reduce.
4. Open vial according to enclosed instructions. Take a gassed 1.0 mL syringe tipped with 22-gauge needle and withdraw 0.5 mL of #1250 broth. Use this to rehydrate the entire pellet.
5. Immediately transfer this aliquot back to the Balch tube.
6. Plate 0.1 mL on a non-selective medium to check for contamination.
7. Incubate tubes and one plate under an anaerobic atmosphere at 30°C. Incubate non-selective plate aerobically at 30°C to check for purity.
8. In 24 to 48 hours, growth should be evident by light 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. Resazurin is a commonly used redox indicator that is pink when the redox potential is above -50 mv, and colorless when the redox potential is below -110 mv. i.e. highly reducing. Most strict anaerobes require this low redox potential for optimum growth.
- c. 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.
- d. Syringes can be made anaerobic by one of two methods.
 1. Displace the dead space in the syringe with a sterile oxygen-free gas.
 2. Displace the dead space in the syringe with a reducing agent.

Notes

Cells are highly motile, comma-shaped rods.

**Desulfovibrio alaskensis* was previously named *Desulfovibrio desulfuricans* subsp. *aestuarii*, and was originally deposited as *Desulfovibrio aestuarii*. The name change from *Desulfovibrio aestuarii* to *Desulfovibrio desulfuricans* subsp. *aestuarii* occurred in 1984.

The type strain for *Desulfovibrio alaskensis* is under the GenBank accession number Y11984.

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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