



# *Desulfovibrio alaskensis* Feio et al.

14563™

## Description

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

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

**Temperature:** 30°C

**Atmosphere:** Anaerobic

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## Handling Procedures

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 sterile, oxygen-free gas.
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

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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.

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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**

## ***Desulfovibrio alaskensis* Feio et al.**

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If use of this material results in a scientific publication, please cite the material in the following manner: *Desulfovibrio alaskensis* Feio et al. (ATCC 14563)

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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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