





Product Sheet

Desulfovibrio desulfuricans (ATCC® BAA-1058™)

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: *Desulfovibrio desulfuricans* (ATCC® BAA-1058™)

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: G20

Deposited Name: *Desulfovibrio desulfuricans* (Beijerinck) Kluuyver and van Niel

Product Description: Genome sequenced strain

Propagation

Medium

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

Growth Conditions

Temperature: 30°C to 38°C

Atmosphere: Anaerobic gas mixture, 80% N₂-20% CO₂

Propagation Procedure

1. Sterilize the top of the Balch tube by spraying it with 70% ethanol and then flame the top.
2. If needed, exchange the gas in the test tube for 100% N₂ or 95% N₂-5% CO₂.
3. If there is any question about the redox potential (*see below*) of the medium, add 2.0 mL of reducing agent (1.5% sodium sulfide, stock solution) per 100 mL of medium. Let the medium sit at room temperature for 10 to 20 minutes before inoculating.
4. When the Balch tube is ready to inoculate, open the vial according to enclosed instructions.
5. For inoculation, use a 1.0 mL syringed tipped with a 22 gauge needle. Make the syringe anaerobic (*see discussion below*) and withdraw 0.5 mL of ATCC Medium #1249 broth and use this to rehydrate the freeze-dried pellet using anaerobic techniques. Transfer the rehydrated cell suspension back to a tube of #1249 broth and incubate at 30°C to 38°C. Plate 0.1 mL of the inoculated culture onto a non-selective medium and incubate aerobically at 30°C. Inoculate a non-selective anaerobic and aerobic broth and incubate at 30°C.
6. Growth should be detected in the #1249 broth within 24 hours. There should be no growth detected on the aerobic plate. There should be no growth in the non-selective aerobic or anaerobic broth.

ANAEROBIC CONDITIONS

- a. Balch tube refers to a special type of test tube that is designed to be pressurized and is suited for anaerobic work. The Balch test tubes can be purchased from Bellco Glass (www.bellcoglass.com; stock no. 2048-00150).
- b. Most strict anaerobes require this low redox potential for optimum growth. Adding a reducing agent to the medium will bring the redox potential to below -110 mv (*i.e.*, highly reduced).
- c. To obtain a fully reduced medium, it is necessary that the medium be anoxic and that a reducing agent be added.
- d. Common reducing agents are sodium sulfide, cysteine, dithiothreitol, and titanium citrate.
- e. 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

Growth should be detected within 24 to 48 hours, as indicated by turbidity throughout the broth. 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


ATCC® products are warranted for 30 days from the date of shipment, and this warranty is valid only if the




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product is stored and handled according to the information included on this product information sheet. If the ATCC® product is a living cell or microorganism, ATCC lists the media formulation that has been found to be effective for this product. While other, unspecified media may also produce satisfactory results, a change in 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

This product is intended for laboratory research purposes only. It is not intended for use in humans. While ATCC uses reasonable efforts to include accurate and up-to-date information on this product sheet, ATCC makes no warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. ATCC does not warrant that such information has been confirmed to be accurate.

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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

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

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