

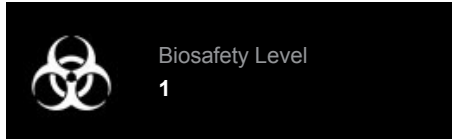


Product Sheet

## *Desulfotomaculum*

### *solfataricum* (ATCC® BAA-573™)

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 solfataricum* (ATCC® BAA-573™)

#### Description

**Designation:** V21 [CIP 107984, DSM 14956]

**Deposited Name:** *Desulfotomaculum solfataricum* Goorissen et al.

#### Propagation

##### Medium

Med for BAA-

##### Growth Conditions

**Temperature:** 60.0°C

**Atmosphere:** Anaerobic

##### 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% N<sub>2</sub>.
3. If the anaerobic condition of the medium is in question, add 0.1 ml reducing agent (3% stock solution of cysteine) per each 10 ml of medium. Let the medium sit at room temperature for 20 to 30 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 syringe tipped with 22 gauge needle. Make the syringe anaerobic (see *discussion below*) and withdraw 0.5 ml of medium #2374 broth and use this to rehydrate the freeze-dried pellet using anaerobic techniques. Transfer the rehydrated cell suspension back to a tube of #2374 broth. Transfer 0.5 ml of the culture into a 2<sup>nd</sup> test tube of #2374 and incubate both test tubes at 55-60°C. Plate 0.1 ml of the inoculated culture onto a non-selective medium and incubate aerobically at 37°C. Inoculate a nonselective anaerobic and aerobic broth and incubate at 70°C.
6. Growth should be detected in the #2374 broth within 5 to 10 days. After growth has been obtained the culture must be transferred every 4 to 7 days. There should be no growth detected on the aerobic plate. There should be no growth in the nonselective 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](http://www.bellcoglass.com); stock no. 2048-00150).
- 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

The cells are straight rods that occur singly and in pairs, spores are spherical central and distend the cell. The cells stain Gram negative but the cell structure is Gram positive. Once growth has been established, the culture should be transferred every 4 to 7 days when maintained at 55-60°C. The culture can be maintained at 4°C for up to 2 weeks.

Additional information on this culture is available on the ATCC web site at [www.atcc.org](http://www.atcc.org).

#### References

References and other information relating to this product are available online at [www.atcc.org](http://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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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](http://www.atcc.org)

Additional information on this culture is available on the ATCC web site at [www.atcc.org](http://www.atcc.org).  
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