



Product Sheet

# ***Desulfovibrio dechloracetivorans*** **(ATCC® 700912™)**

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 dechloracetivorans* (ATCC® 700912™)

## **Description**

**Designation:** SF3 [DSM 16853]

**Deposited Name:** *Desulfovibrio dechloracetivorans* Sun et al.

## **Propagation**

### **Medium**

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

### **Growth Conditions**

**Temperature:** 30.0°C

**Atmosphere:** Under a gas mixture of 95% N<sub>2</sub>, 5% CO<sub>2</sub>

### **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>, or 95% N<sub>2</sub> 5% CO<sub>2</sub>.
  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 syringe tipped with 22 gauge needle. Make the syringe anaerobic (see discussion below) and withdraw 0.5 ml of 1250 and use this to rehydrate the freeze-dried pellet using anaerobic techniques. Transfer the rehydrated cell suspension back to a tube of 1250 broth and incubate at 30°C. Plate 0.1 ml of the inoculated culture onto a non-selective medium and incubate aerobically at 30°C. Inoculate a nonselective anaerobic and aerobic broth and incubate at 30°C.
  6. Growth should be detected in the #1250 broth within 7 to 10 days. There should be no growth detected on the aerobic plate. There should be no growth in the nonselective aerobic or anaerobic broth.
  7. Once growth has been obtained in Medium #1250, the culture can be transferred to Medium #5311 and incubated at 30°C. Actively growing cells can be detected within 7 to 10 days; optimum growth takes 20 to 30 days. Growth in Medium #5311 indicates that the culture is able to utilize 2-chlorophenol as an electron acceptor.
- 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. 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.
  - d. Common reducing agents are sodium sulfide, cysteine, dithiothreitol, and titanium citrate.

## **Notes**

Cells appear as small curved rods single and pairs that are motile.

## **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.

## **ATCC Warranty**

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function of this product. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

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**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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