



Product Sheet

# ***Desulfovibrio* *carbinoliphilus* (ATCC®) BAA-1241™**

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 carbinoliphilus* (ATCC® BAA-1241™)

American Type Culture Collection  
PO Box 1549  
Manassas, VA 20108 USA  
[www.atcc.org](http://www.atcc.org)

800.638.6597 or 703.365.2700  
Fax: 703.365.2750  
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Or contact your local distributor

## **Description**

Designation: D41

## **Propagation**

### **Medium**

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

### **Growth Conditions**

**Atmosphere:** nitrogen (N<sub>2</sub>), 80%; carbon dioxide (CO<sub>2</sub>), 20%

**Temperature:** 30.0°C

### **Propagation Procedure**

1. Open the vial according to enclosed instructions.
2. Perform all steps under anaerobic conditions. Media should be pre-reduced with the addition of 0.1 ml cysteine (3% stock; 0.1 ml for each 5-10 ml of ATCC Medium #1249). Once the cysteine has been added, let the tube sit for at least 30 minutes at room temperature under a head space of anaerobic gas. This will give the cysteine time to scavenge the free oxygen in the medium.
3. Aseptically transfer 0.5 ml of #1249 broth to the vial and rehydrate the pellet. Transfer the suspension back into the broth tube. Inoculate a plate of a non-selective medium such as Tryptic Soy, Nutrient, or blood agar with 0.1 ml of the cell suspension.
4. Seal the tube with a rubber stopper and incubate anaerobically at 30°C. Incubate the plate(s) aerobically as a purity check.
5. After one or two days, growth should be evident as indicated by turbidity through out the broth. Once growth has been established the culture should be transferred to fresh broth every 48 to 96 hours.
6. This culture is very sensitive to oxygen when initially rehydrated, therefore steps should be taken to avoid exposure to oxygen. When the culture exhibits good growth it will remain viable for up to 1 week if stored at 4°C under anaerobic condition.

### **ANAEROBIC CONDITIONS:**

- Tubes of media are placed under a gassing cannula system hooked to a source of oxygen free gas.
- All transfers are performed while the test tubes are on the cannula system with a gentle stream of oxygen free gas flowing through the system.
- As the test tubes are removed from the cannula system each is sealed with butyl rubber stopper thus maintaining the anaerobic headspace.
- 100% nitrogen or 80% nitrogen-20% carbon dioxide gas mixture is typically employed as the oxygen free gas source.

## **Notes**

When examined microscopically, the cells appear as single (some pairs) curved shaped rods that are motile. Ferrous ammonium does not need to be added to ATCC Medium #1249 to obtain growth. Always use freshly prepared anaerobic medium. If there is any question about the anaerobic condition of the medium, the it can be reduced with the addition of 1.5% cysteine (2.0 ml per 100 ml of medium). Other commonly used reducing agents are sodium sulfide, cysteine, dithiothreitol, and titanium citrate. Cysteine is the reducing agent of choice since it does not cause the ferrous ammonium sulfate to precipitate.

## **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**

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



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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.

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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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