



Product Sheet

## *Desulfosporosinus meridiei* (ATCC® BAA-275™)

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: *Desulfosporosinus meridiei* (ATCC® BAA-275™)

### Description

**Designation:** DSM 13257 [NCIMB 13706, S10]

**Deposited Name:** *Desulfosporosinus meridiei* Robertson et al.

### Propagation

#### Medium

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

#### Growth Conditions

**Temperature:** 26.0°C

**Atmosphere:** Anaerobic

#### Propagation Procedure

1. Open the vial according to enclosed instructions.
2. Perform all steps under anaerobic conditions.
3. Aseptically transfer 0.5 ml of #1249 broth to the vial and rehydrate the entire pellet. Transfer this suspension back into the broth tube. Inoculate a plate of a non-selective medium such as Trypticase 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 26°C. Incubate the plate(s) aerobically as a purity check.
5. After two to four 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 72 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-10% carbon dioxide-10% hydrogen gas mixture is typically employed as the oxygen free gas source.
- 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.

### Notes

Cells are weakly motile and appear as rods, singly and in pairs. This strain forms subterminal spores that cause the cell to swell slightly.

### 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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Or contact your local distributor



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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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