Designation: DSM 2075  
Deposited Name: Desulfovibrio baarsii Widdel

Medium
ATCC® Medium 1283: Medium for sulfate reducers

Growth Conditions
Temperature: 37.0°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 #1283 broth to the vial and rehydrate the pellet. Transfer the suspension back into the broth tube (5 to 6 ml). Inoculate a plate of a non-selective medium such as Trypticase Soy, Nutrient, Brain Heart Infusion or Blood agar with 0.1 to 0.2 ml.
4. Seal the test tube with a rubber stopper and incubate anaerobically at 37°C. Incubate the plate aerobically for a purity check.
5. After one to two days, growth is evident by turbidity through out the broth. When examined microscopically, the cells appear as single (some pairs) comma-shaped rods that are very motile. Once growth has been detected, the culture should be transferred to fresh broth(s). Growth should be detected within 24-48 hours.
6. This culture is very sensitive to oxygen when initially rehydrated, therefore steps should be taken to avoid exposure to oxygen. Once growth has been established, the culture should be transferred to fresh broth medium, every 48 hours. The culture will remain viable for up to 1 week at 4°C under anaerobic conditions, as long as the culture has established good growth before it is refrigerated.

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.

References and other information relating to this product are available online at www.atcc.org.

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

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