Product Sheet

Thermosediminibacter oceani (ATCC® BAA-1034™)

Please read this FIRST

Biosafety Level
1

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: *Thermosediminibacter oceani* (ATCC® BAA-1034™)

American Type Culture Collection
PO Box 1549
Manassas, VA 20108 USA
www.atcc.org

800.638.6597 or 703.365.2700
Fax: 703.365.2750
Email: Tech@atcc.org

Or contact your local distributor

Description

Designation: JW/IW-1228P [DSM 16646]
Deposited Name: *Thermosedimentibacter oceanensis*

Propagation

Medium
Thermosedimentibacter

Growth Conditions
Temperature: 65.0°C
Atmosphere: Anaerobic; 80% N_2-20% CO_2

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 to 80% N_2-20% CO_2.
3. When the Balch tube is ready to inoculate, open the vial according to enclosed instructions.
4. 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 #2518 broth and use this to rehydrate the freeze-dried pellet using anaerobic techniques. Transfer the rehydrated cell suspension back to the tube of broth and incubate at 65ºC. Plate 0.1 ml of the inoculated culture onto a non-selective medium and incubate aerobically at 37ºC. Inoculate a non-selective anaerobic and aerobic broth and incubate at 37ºC.
5. Growth should be detected in the broth within 24 to 48 hours. No growth should be detected on the aerobic plate or broth.

ANAEROBIC CONDITIONS:
a. 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.
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.
c. Syringes can be made anaerobic by one of two methods.
    1. Displace the dead space in the syringe with a sterile

Notes

Cells are rod-shaped and tend to form aggregates. Growth can be detected by an increase in turbidity or microscopically.

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

References

References and other information relating to this product are available online at 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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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

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