Thermosediminibacter litoriperuensis Lee et al.

BAA-1035™

Description

Strain designation: JW/YJL-1230-7/2 [DSM 16647]
Deposited As: *Thermosedimentibacter litusperuensis*
Type strain: Yes

Storage Conditions

Product format: Frozen

Intended Use

This product is intended for laboratory research use only. It is not intended for any animal or human therapeutic use, any human or animal consumption, or any diagnostic use.

BSL 1

ATCC determines the biosafety level of a material based on our risk assessment as guided by the current edition of *Biosafety in Microbiological and Biomedical Laboratories (BMBL)*, U.S. Department of Health and Human Services. It is your responsibility to understand the hazards associated with the material per your organization's policies and procedures as well as any other applicable regulations as enforced by your local or national agencies.

ATCC highly recommends that appropriate personal protective equipment is always

used when handling vials. For cultures that require storage in liquid nitrogen, it is important to note that some vials may leak when submersed in liquid nitrogen and will slowly fill with liquid nitrogen. Upon thawing, the conversion of the liquid nitrogen back to its gas phase may result in the vial exploding or blowing off its cap with dangerous force creating flying debris. Unless necessary, ATCC recommends that these cultures be stored in the vapor phase of liquid nitrogen rather than submersed in liquid nitrogen.

Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at www.atcc.org.

Growth Conditions

Temperature: 65°C
Atmosphere: 80% N_2, 20% CO_2

Handling Procedures

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% N2-20% 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 with an optimal growth temperature of 65˚C. Cell density is very low with no or little turbidity.

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

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Thermosediminibacter litoriperuensis* Lee et al. (ATCC BAA-1035)

References

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

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