Thermoanaerobacter uzonensis Wagner et al.

BAA-1464™

Description

Strain designation: JW/IW010
Type strain: Yes

Storage Conditions

Product format: Freeze-dried
Storage conditions: 2°C to 8°C

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

Medium:
ATCC Medium 2682: Thermoanaerobacter uzonii Medium
Temperature: 60°C
Atmosphere: Anaerobic

Handling Procedures

1. Sterilize the top of the all test tubes by spraying with 70% ethanol and then flaming the tops.
2. If needed, exchange the gas in the test tube for 80% N_2 20% CO_2 or 100% N_2.
3. If the medium is pink add 0.2 ml Co-enzyme M (5% stock solution) per 10 ml of medium. Let the medium sit at room temperature for 30 to 40 minutes until the medium becomes colorless before inoculating.
4. When the medium is ready to inoculate, open the vial according to enclosed

instructions.

5. For inoculation, use an anaerobic 1.0 ml syringe (*see below*) tipped with 22 gauge needle. Withdraw 0.5 ml of #2682 broth and use this to rehydrate the entire freeze dried pellet. Immediately place the rehydrated vial under a stream of sterile oxygen-free gas.
6. Using the same syringe, transfer the rehydrated cell suspension back to the tube of #2682 broth. Plate 0.1 ml of the inoculated culture onto a non-selective medium and incubate aerobically at 30ºC. Use 0.1 ml of the inoculated culture to inoculate a nonselective aerobic broth. Transfer 0.5 ml of the culture to an additional tube of #2682 broth. Incubate the broth tubes at 60ºC.
7. Growth should be detected in the #2682 broth within 24 to 48 hours. There should be no growth detected on the aerobic plate or in the aerobic broth.

Notes

Cells are gram-negative motile rods that occur in pairs and chains. Minimal growth on ATCC® media #260 blood agar occurs with colonies being circular, transparent, convex and glistening.

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: *Thermoanaerobacter uzonensis* Wagner et al. (ATCC BAA-1464)

References

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

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Revision

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