



***Caldanaerobacter uzonensis* Kozina et al.**

BAA-1495™

Description

Caldanaerobacter uzonensis strain JW/HL-KA-09 is a thermophilic bacterium that was isolated from a hot spring in Russia.

Strain designation: JW/HL-KA-09

Type strain: No

Storage Conditions

Product format: Frozen

Storage conditions: -80°C or colder

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 submerged 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 submerged 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 2681: *Caldanaerobacter uzonensis*

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 tubes for 80% N₂ 20% CO₂ or 100% N₂.
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.

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4. When the medium is ready to inoculate, thaw the frozen vial at room temperature under a gentle stream of oxygen-free gas.
 5. For inoculation, use an anaerobic 1.0 ml syringe tipped with 22-gauge needle, withdraw the cell suspension from the vial and transfer it to the broth. Plate 0.1 ml of the inoculated culture onto a non-selective medium and incubate aerobically at 30°C. 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 #2681 broth. Incubate the broth tubes at 55-60°C.
 6. Growth should be detected in the #2681 broth within 2 to 3 days. There should be no growth detected on the aerobic plate or in the aerobic broth.
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Notes

Cells are gram-negative motile rods that vary in length.

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: *Caldanaerobacter uzonensis* Kozina et al. (ATCC BAA-1495)

References

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

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