Acidothermus cellulolyticus Mohagheghi et al.

43068™

Description

Acidothermus cellulolyticus strain 11B is a type strain isolated in 1983 from a hot spring at Yellowstone National Park. This thermophilic acidophile is whole-genome sequenced and is propagated in LPBM acido-thermophile medium at 55°C.

Strain designation: 11B
Deposited As: *Acidothermus cellulolyticus* Mohagheghi et al.
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 1473: LPBM acido-thermophile medium
Temperature: 55°C
Atmosphere: Aerobic

Handling Procedures

1. Open vial according to enclosed instructions.
2. Using a single tube of #1473 broth (5 to 6 mL), withdraw approximately 0.5 to

1.0 mL with a Pasteur or 1.0 mL pipette. Rehydrate the entire pellet.
3. Aseptically transfer this aliquot back into the broth tube. Mix well.
4. Use several drops of the suspension to inoculate additional #1473 broth tubes.
5. Incubate all tubes and plate in a moist can or jar (to prevent dehydration) at 55°C for 5 to 8 days.

Notes

Growth occurs within 5 to 8 days when initially rehydrated. After growth has been established the culture can be transferred every 48 to 72 hours. The cells are long slender rods with rounded ends and are non-motile. This item grows in broth, where the cells tend to form clumps and flocculate after 3 to 10 days.

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: *Acidothermus cellulolyticus* Mohagheghi et al. (ATCC 43068)

References

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

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Revision

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