



Alicyclobacillus acidocaldarius subsp. *acidocaldarius* (Darland and Brock) Wisotzkey et al.

27009™

Description

Alicyclobacillus acidocaldarius subsp. *acidocaldarius* strain 104-1A is a thermophilic type strain that was isolated in 1969 from a hot spring at Yellowstone National Park. This strain is known to produce the restriction endonuclease BaeI.

Strain designation: 104-1A [CCRC 14685, CCUG 28521, CIP 106131, DSM 446, HAMBI 2071, HAMBI 2073, IFO 15652, JCM 5260, KCTC 1825, LMG 7119, NCCB 89167, NCIMB 11725, NRRL B-14509]

Deposited As: *Bacillus acidocaldarius* Darland and Brock

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

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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 573: *Bacillus* medium

Temperature: 55°C

Atmosphere: Aerobic

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Handling Procedures

1. Open vial.
2. Using a single tube of #573 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 a second tube of broth, a slant, and/or plate.
5. Incubate all tubes and plate in a moist can or jar (to prevent dehydration) at 55°C for 48 hours.

Notes

*The subspecies name *Alicyclobacillus acidocaldarius* subsp. *acidocaldarius* (Darland and Brock 1971) Wisotzkey et al. 1992 is automatically created by the valid publication of *Alicyclobacillus acidocaldarius* subsp. *rittmannii* Nicolaus et al. 2002 [Rule 40d].

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: *Alicyclobacillus acidocaldarius* subsp. *acidocaldarius* (Darland and Brock) Wisotzkey et al. (ATCC 27009)

References

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

Warranty

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