



Alicyclobacillus acidocaldarius (Darland and Brock) Wisotzkey et al.

→3033™

Description

Alicyclobacillus acidocaldarius strain NRS 1664 [GD1B] was isolated in 1971 from a hot spring in Yellowstone National Park. This thermo-acidophilic bacterium has applications in biotechnology.

- **Strain designation** NRS 1664 [GD1B]
- **Deposited As** *Bacillus acidocaldarius* Darland and Brock
- **Type strain** No

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 submerged in liquid nitrogen and will slowly fill with liquid nitrogen. Upon

Alicyclobacillus acidocaldarius (Darland and Brock)

Wisotzkey et al.

⁴³⁰³³ 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 573: Bacillus medium](#)
 - **Temperature** 50°C
 - **Atmosphere** Aerobic
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Handling Procedures

- 1. Open vial according to enclosed instructions.
 - 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 50°C for 24 to 48 hours.
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Notes

Growth occurs within 24 to 48 hours.

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

Alicyclobacillus acidocaldarius (Darland and Brock)

Wisotzkey et al.

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Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Alicyclobacillus acidocaldarius* (Darland and Brock) Wisotzkey et al. (ATCC 43033)

References

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

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

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