



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

**43035<sup>TM</sup>**

## **Description**

*Alicyclobacillus acidocaldarius* strain NRS 1667 [470B] is a thermophile that was isolated in 1971 from a hot spring at Yellowstone National Park. This strain is part of the National Park Service (NPS) Special Collection.

**Strain designation:** NRS 1667 [470B]

**Deposited As:** *Bacillus acidocaldarius* Darland and Brock

**Type strain:** No

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## **Storage Conditions**

**Product format:** Freeze-dried

**Storage conditions:** 2°C to 8°C

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## **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.

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## **BSL 1**

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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.

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**Certificate of Analysis**

For batch-specific test results, refer to the applicable certificate of analysis that can be found at [www.atcc.org](http://www.atcc.org).

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**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.

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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**

On #573 plates, colonies predominantly appear to have irregular margins and translucent centers. When examined under phase microscopy, cells appear as chains of irregular non-motile bacilli.

Additional information on this culture is available on the ATCC web site at [www.atcc.org](http://www.atcc.org).

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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 43035)

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**References**

References and other information relating to this material are available at [www.atcc.org](http://www.atcc.org).

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