



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 *BacI*.

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

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

27009

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

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

27009

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 55°C for 48 hours.
-

Notes

On #573 plates, colonies predominantly appear circular, entire, glistening, slightly raised, translucent and white/yellow in color. Some colonies are larger and more opaque.

*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

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

27009

www.atcc.org

Warranty

The product is provided 'AS IS' and the viability of ATCC® products is warranted for 30 days from the date of shipment, provided that the customer has stored and handled the product according to the information included on the product information sheet, website, and Certificate of Analysis. For living cultures, ATCC lists the media formulation and reagents that have been found to be effective for the product. While other unspecified media and reagents may also produce satisfactory results, a change in the ATCC and/or depositor-recommended protocols may affect the recovery, growth, and/or function of the product. If an alternative medium formulation or reagent is used, the ATCC warranty for viability is no longer valid. Except as expressly set forth herein, no other warranties of any kind are provided, express or implied, including, but not limited to, any implied warranties of merchantability, fitness for a particular purpose, manufacture according to cGMP standards, typicality, safety, accuracy, and/or noninfringement.

Disclaimers

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. Any proposed commercial use is prohibited without a license from ATCC.

While ATCC uses reasonable efforts to include accurate and up-to-date information on this product sheet, ATCC makes no warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. ATCC does not warrant that such information has been confirmed to be accurate or complete and the customer bears the sole responsibility of confirming the accuracy and completeness of any such information.

This product is sent on the condition that the customer is responsible for and

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

27009

assumes all risk and responsibility in connection with the receipt, handling, storage, disposal, and use of the ATCC product including without limitation taking all appropriate safety and handling precautions to minimize health or environmental risk. As a condition of receiving the material, the customer agrees that any activity undertaken with the ATCC product and any progeny or modifications will be conducted in compliance with all applicable laws, regulations, and guidelines. This product is provided 'AS IS' with no representations or warranties whatsoever except as expressly set forth herein and in no event shall ATCC, its parents, subsidiaries, directors, officers, agents, employees, assigns, successors, and affiliates be liable for indirect, special, incidental, or consequential damages of any kind in connection with or arising out of the customer's use of the product. While reasonable effort is made to ensure authenticity and reliability of materials on deposit, ATCC is not liable for damages arising from the misidentification or misrepresentation of such materials.

Please see the material transfer agreement (MTA) for further details regarding the use of this product. The MTA is available at www.atcc.org.

Copyright and Trademark Information

© ATCC 2023. All rights reserved.

ATCC is a registered trademark of the American Type Culture Collection.

Revision

This information on this document was last updated on 2023-02-26

Contact Information

ATCC

10801 University Boulevard

Manassas, VA 20110-2209

USA

US telephone: 800-638-6597

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

27009

Worldwide telephone: +1-703-365-2700

Email: tech@atcc.org or contact your local distributor
