



Citrobacter freundii **(Braak) Werkman and Gillen**

BAA-3249™

Description

This drug-resistant bacterium was isolated in 2013 from the skin ulcer of a 54-year-old male in Brazil. This product can be used for all stages of the discovery and development process for novel antimicrobials and therapeutics, molecular-based detection assays, and updated sterility protocols.

Strain designation: 990954

Deposited As: *Citrobacter freundii*

Type strain: No

Storage Conditions

Product format: Frozen

Storage conditions: -80°C or colder

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 2

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 18: Trypticase Soy Agar/Broth

Temperature: 37°C**Atmosphere:** Aerobic

Handling Procedures

1. Open thawed vial.

2. Aseptically transfer the entire contents to a 5-6 mL tube of #18 broth. Additional test tubes can be inoculated by transferring 0.5 mL of the primary broth tube to these secondary tubes.
 3. Use several drops of the primary broth tube to inoculate a #18 plate and/or #18 agar slant.
 4. Incubate at 37°C for 18-24 hours.
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Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Citrobacter freundii* (Braak) Werkman and Gillen (ATCC BAA-3249)

References

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

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