



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

**8090™**

## **Description**

*Citrobacter freundii* strain [ATCC 13316, NCTC 9750] is a whole-genome sequenced bacterial type strain. This bacterial culture produces restriction endonuclease CfrAI and it can be used as a quality control strain for Sensititre products.

**Strain designation:** [ATCC 13316, NCTC 9750]

**Deposited As:** *Citrobacter freundii* (Braak) Werkman and Gillen

**Type strain:** Yes

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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**

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

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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 3: Nutrient agar or nutrient broth

**Temperature:** 37°C

**Atmosphere:** Aerobic

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## Handling Procedures

1. Open vial according to enclosed instructions.
2. Using a single tube of #3 broth (5 to 6 mL), withdraw approximately 0.5 to 1.0

8090

- 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 #3 agar slant and/or plate.
  5. Incubate the tubes and plate at 37°C for 24 to 48 hours.
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## Notes

Purified genomic DNA of this strain is available as ATCC® 8090D™.

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: *Citrobacter freundii* (Braak) Werkman and Gillen (ATCC 8090)

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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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