



# *Clostridioides difficile* (Prevot) Lawson et al.

43600™

## Description

**Strain designation:** 2149

**Deposited As:** *Clostridium difficile* (Hall and O'Toole) Prevot

**Type strain:** No

**Serotype:** H

**Toxigenic:** Yes

**Toxin genes:** *cdtB* (Binary toxin) negative; *tcdA* (Toxin A) positive; *tcdB* (Toxin B) positive

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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 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

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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 submerged 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 submerged 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:**

Anaerobe Systems Brucella Blood Agar Plates (BRU) (AS-111 or AS-141)

ATCC Medium 2107: Modified Reinforced Clostridial

ATCC Medium 260: Trypticase soy agar/broth with defibrinated sheep blood

**Temperature:** 35-37°C

**Atmosphere:** Anaerobic

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### **Handling Procedures**

1. Open vial according to enclosed instructions.
2. Under anaerobic conditions, withdraw 0.5 mL of the recommended broth from a single test tube (5 to 6 mL) and rehydrate the vial contents.
3. Aseptically transfer this aliquot back into the broth. Additional tubes may be inoculated with 0.5 mL each from the suspension. 0.1 mL may also be inoculated onto a slant. Streak several Brucella agar plates to check for colony morphology and a blood agar plate for purity.
4. Incubate tubes under an anaerobic atmosphere at 37°C. Incubate the Brucella agar plates anaerobically for colony formation, and the blood agar plate aerobically for contamination check.
5. Within 24 hours, growth should be evident by turbidity in the broth and by colonies on the anaerobic agar surfaces. Colonies are circular, slightly irregular, glistening, raised. No growth occurs on agar plates incubated aerobically.

**ANAEROBIC CONDITIONS:**

Anaerobic conditions for transfer may be obtained by either of the following:

- Use of an anaerobic gas chamber, or
- Placement of test tubes under a gassing cannula system connected to anaerobic gas.

Anaerobic conditions for incubation may be obtained by any of the following:

- Loose screw caps on test tubes in anaerobic chamber,
- Loose screw caps on test tubes in an activated anaerobic gas pack jar, or
- Use of sterile butyl rubber stoppers on test tubes so that an anaerobic gas headspace is retained.

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**Notes**

Anaerobe Systems Brucella Blood Agar Plates (AS-111) can be used to analyze colony morphology and purity.

Cells are straight, round-ended rods occurring singly and in pairs. Peak viability density achieved between 6 and 12 hours of growth based on Bioscreen data.

Presence of the genes for Toxins A and B confirmed by PCR.

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: *Clostridioides difficile* (Prevot) Lawson et al. (ATCC 43600)

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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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## Revision

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This information on this document was last updated on 2026-06-03

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