



Product Sheet

# *Clostridioides difficile* (ATCC® 43601-FZ™)

Please read this FIRST



## Intended Use

This product is intended for research use only. It is not intended for any animal or human therapeutic or diagnostic use.

## Citation of Strain

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: *Clostridioides difficile* (ATCC® 43601-FZ™)

## Shipping Information

Frozen

## Description

**Designation:** 7322

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

**Antigenic Properties:** Serogroup I

## Propagation

### Medium

ATCC® Medium 2107: Modified Reinforced Clostridial Agar/Broth Medium (pre-reduced)

### Growth Conditions

**Temperature:** 37°C

**Atmosphere:** Anaerobic gas mixture 80% N<sub>2</sub> -10% CO<sub>2</sub> -10% H<sub>2</sub>

### Propagation Procedure

1. Thaw the frozen vial at room temperature.
2. Under anaerobic conditions, aseptically transfer the contents of the vial into a tube of the recommended broth (5 to 6 ml).
3. Additional tubes may be inoculated with 0.5 ml each from the suspension. Also, 0.1 ml may be inoculated onto a slant. Streak a Brucella agar blood to check for colony morphology and a blood plate to check for purity.
4. Incubate tubes under an anaerobic atmosphere at 37°C. Incubate the Brucella Agar plate anaerobically for colony formation, and the blood plate aerobically for aerobic contamination check.
5. Within 48 hours, growth should be evident by turbidity in the broth and by colonies on the anaerobic agar surfaces. No growth should occur 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.

## Notes

Colonies on Brucella agar plates are circular with irregular edges, flat and cream color. Additional information on this culture is available on the ATCC® web site at [www.atcc.org](http://www.atcc.org).

## References

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

## Biosafety Level: 2

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the current publication of the *Biosafety in Microbiological and Biomedical Laboratories* from the U.S. Department of Health and Human Services Centers for Disease Control and Prevention and National Institutes for Health.

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## Disclaimers

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Email: [Tech@atcc.org](mailto:Tech@atcc.org)

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Product Sheet

## ***Clostridioides difficile*** **(ATCC® 43601-FZ™)**

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Please see the enclosed Material Transfer Agreement (MTA) for further details regarding the use of this product. The MTA is also available on our Web site at [www.atcc.org](http://www.atcc.org)

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

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