ATCC

Product Sheet

# *Clostridium difficile* (ATCC® 17858-FZ™)

## Please read this FIRST

Biosafety Level
**2**

## 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: *Clostridium difficile* (ATCC® 17858-FZ™)

## Shipping Information

Frozen

American Type Culture Collection
PO Box 1549
Manassas, VA 20108 USA
www.atcc.org

800.638.6597 or 703.365.2700
Fax: 703.365.2750
Email: Tech@atcc.org

*Or contact your local distributor*

## Description

**Designation:** 1253
**Deposited Name:** *Clostridium difficile* (Hall and O'Toole) Prevot
**Genotype:** Toxinotype: 0

## Propagation

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

**Growth Conditions**
**Temperature:** 37°C
**Atmosphere:** Anaerobic gas mixture 80% $N_2$ -10% $CO_2$ -10% $H_2$

**Propagation Procedure**
1. Thaw the frozen vial under anaerobic conditions.
2. Under anaerobic conditions, transfer the entire contents of the thawed vial into a single tube (5-6 ml) of #2107 broth. Mix well.
3. Additional tubes of broth may be inoculated with 0.5 ml each from the suspension and 0.1 ml may be inoculated onto a slant. Streak several blood plates for colony morphology and purity.
4. Incubate the tubes and plate under anaerobic conditions at 37°C for 24 to 48 hours. Incubate the purity plate aerobically at 37°C. Turbid growth is evident in the broth at 24 to 48 hours.

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 are erose, smooth, flat and white or pale gray in color.
Presence of *tcdA* and *tcdB* genes confirmed by PCR.
Toxin B production confirmed by cytotoxicity assay using Vero cells (Cell line #CCL-81). Binary toxin gene *cdtB* not amplified by PCR
Additional information on this culture is available on the ATCC® web site at www.atcc.org.

## References

References and other information relating to this product are available online at 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.

## ATCC Warranty

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## Disclaimers

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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

Additional information on this culture is available on the ATCC web site at www.atcc.org.
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