



# *Clostridium perfringens* (Veillon and Zuber) Hauduroy et al.

12916™

## Description

*Clostridium perfringens* strain NCTC 8238 [281/50] is a bacterial anaerobe isolated from boiled salt beef. The *cpa* (Alpha toxin) and *cpe* (Enterotoxin) genes were confirmed to be present in this strain.

**Strain designation:** NCTC 8238 [281/50]

**Deposited As:** *Clostridium welchii*

**Type strain:** No

**Toxigenic:** Yes

**Toxin genes:** *cpa* (Alpha toxin) positive; *cpe* (Enterotoxin) positive; *etx* (Epsilon toxin) negative

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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

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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.

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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 2107: Modified Reinforced Clostridial

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

**Temperature:** 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 #2107 broth from a single test tube (5 to 6 mL) and rehydrate the entire vial contents.
3. Aseptically transfer this aliquot back into the broth tube. Additional tubes may be inoculated with 0.5 mL each from the suspension. A slant of #2107 may also be inoculated with 0.2 mL. Streak several blood plates to check for colonial morphology and purity.
4. Incubate tubes under an anaerobic atmosphere at 37°C for 24 hours. Incubate one agar plate anaerobically for colony formation and one aerobically for aerobic contamination check.

### 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 hooked 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 plate (AS-111 or AS-141) can be used to analyze colony morphology and purity.

No growth should occur on agar plate incubated aerobically.

This strain is used in media testing (International Organization for Standardization/ANSI; ISO 11133-2: 2003, British Standards Institution; British Standard DD CEN ISO/TS 11133: 2003).

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The presence of *cpa* and *cpe* genes was 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: *Clostridium perfringens* (Veillon and Zuber) Hauduroy et al. (ATCC 12916)

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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**

This information on this document was last updated on 2024-09-22

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