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

12915™

## Description

*Clostridium perfringens* strain NCTC 8359 is an anaerobic bacterium that was isolated from stewed steak. This strain is confirmed by PCR to have the *cpa* and *cpe* genes. This strain is typed as agglutinating type 1, type A.

**Strain designation:** NCTC 8359 [3702/49, CIP 106516]
**Deposited As:** *Clostridium welchii*
**Type strain:** No
**Toxigenic:** Yes
**Toxin genes:** *cpa* (Alpha toxin) positive; *cpe* (Enterotoxin) positive; *etx* (Epsilon toxin) negative

## Storage Conditions

**Product format:** Freeze-dried
**Storage conditions:** 2°C to 8°C

## 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.

## 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 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.

## Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at www.atcc.org.

## 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.
2. Under anaerobic conditions aseptically rehydrate the entire pellet with approximately 0.5 mL of #2107 broth. Aseptically transfer the entire contents to a 5-6 mL tube of #2107 broth. Additional test tubes can be inoculated by transferring 0.5 mL of the primary broth tube to these secondary broth tubes. Best practice dictates the use of pre-reduced media.
3. Use several drops of the primary broth tube to inoculate a #260 plate and/or #260 agar slant.
4. Incubate in an anaerobic atmosphere at 37°C for 1-2 days. Incubate one agar plate aerobically at 37°C to check for contamination.

ANAEROBIC CONDITIONS:

Anaerobic conditions for transfer may be obtained by the 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 an anaerobic chamber
- Loose screw caps on test tubes in an activated anaerobic gas pack jar
- Use of sterile butyl rubber stoppers on test tubes so that an anaerobic gas headspace is retained

## Notes

Within 24 hours, growth is evident by good turbidity and gas in the broth. Gas production is also evident on the agar slant. No growth should occur on agar plate incubated aerobically.

Multiple colony morphologies may be observed with this species.

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.

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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 12915)

## References

References and other information relating to this material are available at www.atcc.org.

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## Revision

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