Clostridium perfringens (Veillon and Zuber) Hauduroy et al.

10388™

Description

Type A
Strain designation: 2279
Deposited As: *Clostridium perfringens* (Veillon and Zuber) Hauduroy et al.
Type strain: No
Toxigenic: Yes
Toxin genes: *cpa* (Alpha toxin) positive; *etx* (Epsilon toxin) negative; *pfoA* (Perfringolysin O) positive

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 1053: Reinforced Clostridial medium (Oxoid CM149)
Temperature: 37°C
Atmosphere: Anaerobic

Handling Procedures

1. Open vial according to enclosed instructions.

2. Under anaerobic conditions, withdraw 0.5 mL of the recommended broth from a single tube (5 to 6 mL) and rehydrate the entire vial contents.
3. Aseptically transfer this aliquot back into the broth tube. A slant may be inoculated with 0.1 mL of the cell suspension. Also, streak several blood agar plates to check for colonial morphology and purity.
4. Incubate tubes and one blood plate under anaerobic conditions at 37°C. Incubate second agar plate aerobically at 37°C for aerobic contamination check.
5. Within 24 hours, growth is evident by good turbidity and gas formation in the broth. Gas production will be evident on the agar slant. Colonies on the anaerobic blood plate are irregular, lobate spreading edges, with strong beta hemolysis. No growth should occur on agar plate 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 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.

Notes

Colonies on #260 plates are irregular, flat, undulate, glistening, rough, and with age the colonies will show spreading.

The presence of *cpa* and *pfoA* 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 10388)

References

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

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Revision

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