Product Sheet

Clostridium cellulolyticum
(ATCC® 35319™)

Please read this FIRST

Description

Designation: H10 [JCM 6584]
Deposited Name: Clostridium cellulolyticum Petitdemange et al.
Product Description: Type strain. Degrades glucose and cellulose.

Propagation

Medium

ATCC® Medium 1368: Clostridium Cellulolytic medium
ATCC® Medium 260: Trypticase soy agar/broth with defibrinated sheep blood

Growth Conditions

Temperature: 35°C to 37°C
Atmosphere: Anaerobic

Propagation Procedure

1. Open vial according to enclosed instructions.
2. Under anaerobic conditions, withdraw 0.5 mL of #1368 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. Mix well.
4. Use several drops of the suspension to inoculate a pre-reduced #260 blood plate and a #260 slant. An aerobic blood plate may also be streaked to check for purity.
5. Incubate the tubes and plate under anaerobic conditions at 37°C for 2 to 5 days. Incubate the purity plate aerobically at 37°C. Turbid growth is evident in the broth at 2 to 3 days while the agar requires a longer incubation period.

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

ATCC recommends PRAS Brucella Blood Plate from Anaerobe Systems (AS-111). Colonies on Brucella blood are gray, raised, glistening, and irregular. No growth should occur on the aerobic blood plate. Always use freshly prepared pre-reduced media or pre-reduced media that has been previously prepared but stored under anaerobic conditions. Resazurin in the media is a color indicator for anaerobic conditions. Observance of pink color in medium before use or during incubation shows anaerobic conditions have not been met and oxidation has occurred. Medium should be discarded. 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: 1

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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