Product Sheet

Caldicellulosiruptor owensensis (ATCC® 700167™)

Please read this FIRST

Biosafety Level
1

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: *Caldicellulosiruptor owensensis* (ATCC® 700167™)

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: OL
Deposited Name: *Caldicellulosiruptor owensensis* Huang et al.

Propagation

Medium
ATCC® Medium 1465: Basal thermophile medium

Growth Conditions
Temperature: 70.0°C
Atmosphere: Anaerobic

Propagation Procedure
1. Sterilize the top of the Balch tube by spraying it with 70% ethanol and then flame the top.
2. If needed exchange the gas in the test tube for 80% N_2 20% CO_2.
4. When the Balch tube is ready to inoculate, open the freeze dried vial and rehydrated the freeze dried pellet with 0,5 ml of broth (Use a anaerobic syringe to with draw 0.5 ml of broth from the balch tube). The rehydration step should be performed under a gentle stream of oxygen-free gas to insure that the anaerobic conditions are mainatained.
5. For inoculation, use an anaerobic (see c below) 1.0 ml syringe tipped with 22-gauge needle, withdraw the cell suspension from the vial and transfer it to the broth. Plate 0.1 ml of the inoculated culture onto a non-selective medium and incubate aerobically at 37ºC. Use 0.1 ml of the inoculated culture to inoculate a nonselective aerobic broth and an additional tube of #1465 broth. Incubate the non-selective aerobic broth tubes at 37ºC. Incubate the #1465 broth culture at 70ºC.
6. Growth should be detected in the #1465 broth within 24 to 48 hours. There should be no growth detected on the aerobic plate or in the aerobic broth.
ANAEROBIC CONDITIONS:
a. Resazurin is a commonly used redox indicator that is pink when the redox potential is above 50 mv., and colorless when the redox potential is below 110 mv. i.e. highly reducing. Most strict anaerobes require this low redox potential for optimum growth.
b. To obtain a fully reduced medium, it is necessary that the medium be anoxic and that a reducing agent be added. Common reducing agents are sodium sulfide, cysteine, dithiothreitol, and titanium citrate.
c. Syringes can be made anaerobic by one of two methods. 1. Displace the dead space in the syringe with a sterile

Notes

Cells are non-motile rods that occur singly, in pairs and chains. Colonies on #1465 are white, rounded, and circular, with smooth edges.

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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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

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