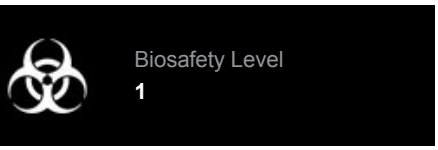
ATCC

Product Sheet

Acetobacterium woodii (ATCC® 29683™)

Please read this FIRST



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: *Acetobacterium woodii* (ATCC® 29683™)

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: WB1 [DSM 1030]
Deposited Name: *Acetobacterium woodii* Balch et al.

Propagation

Medium
ATCC® Medium 1019: Acetobacterium medium

Growth Conditions
Temperature: 30.0°C
Atmosphere: Under 100% N2

Propagation Procedure
PROPAGATION PROCEDURE:
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 vial contents.
4. Incubate tubes under an anaerobic atmosphere at 30ºC. Incubate one agar plate anaerobically for colony formation, and one aerobically for aerobic contamination check.
5. In 48-72 hours, growth should be evident by turbidity that settles to the bottom of the tube. No growth should occur on agar plate incubated aerobically.

ANAEROBIC CONDITIONS:

a. Balch tubes (available from Bellco Glass, Vineland, NJ; are specially designed for anaerobic work and use an aluminum crimp cap to hold a rubber stopper in place. Needles can easily be inserted through the stopper, and the tubes can be pressurized to 2 atm. Alternatively, serum vials may be used, or screw cap tubes with butyl rubber stoppers, in the latter case the stopper may be removed and the tube placed under a cannula system that dispenses sterile, oxygen free gas for addition of reducing agents or inoculation.

b. 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.

c. 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.

d. Syringes can be made anaerobic by one of two methods.

Notes

Cells are Gram-positive, motile rods found singly or in short chains.

***Acetobacterium woodii* is sensitive to $Na_2S \cdot 9H_2O$. If the medium has been oxidized and needs to be re-reduced, use cysteine HCl (stock concentration of 3%). Add 0.1 ml cysteine per each 5 to 6 ml of #1019 medium. For best results, use freshly prepared medium. The gas mixture used is very important. Avoid the use of H_2.**

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.

ATCC Warranty

ATCC® products are warranted for 30 days from the date of shipment, and this warranty is valid only if the product is stored and handled according to the information included on this product

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Biosafety Level
1

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information sheet. If the ATCC® product is a living cell or microorganism, ATCC lists the media formulation that has been found to be effective for this product. While other, unspecified media may also produce satisfactory results, a change in media or the absence of an additive from the ATCC recommended media may affect recovery, growth and/or function of this product. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

Disclaimers

This product is intended for laboratory research purposes only. It is not intended for use in humans.
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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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