



Product Sheet

Acetobacterium sp. (ATCC® BAA-990™)

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 sp.* (ATCC® BAA-990™)

Description

Designation: SyrA5

Deposited Name: *Acetobacterium sp.*

Propagation

Medium

ATCC® Medium 1019: Acetobacterium medium

Growth Conditions

Temperature: 30.0°C

Atmosphere: anaerobic

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 30°C. 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.

This strain is sensitive to Na₂S·9H₂O. 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 H₂.

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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function of this product. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

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Additional information on this culture is available on the ATCC web site at www.atcc.org.

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