



Product Sheet

Anaerobiospirillum succiniciproducens (ATCC® 55617™)

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: *Anaerobiospirillum succiniciproducens* (ATCC® 55617™)

Description

Designation: FA-10

Deposited Name: *Anaerobiospirillum succiniciproducens* Davis et al.

Propagation

Medium

ATCC® Medium 1490: Modified chopped meat medium

Growth Conditions

Temperature: 37.0°C

Atmosphere: Under a gas mixture of 80% N₂, 10% CO₂, 10% H₂

Propagation Procedure

1. This culture must be propagated under strictly anaerobic, conditions (see below).
2. Open the vial according to enclosed instructions.
3. Under anaerobic conditions, withdraw 0.5 ml of 1490 broth from a single test tube and rehydrate the vial contents.
4. Aseptically transfer this aliquot back into the broth tube. A slant and a pre-reduced blood plate may be inoculated with 0.1 ml each of the cell suspension. Also inoculate a non-selective plate and tube of broth to test for the presence of aerobic contaminants.
5. Incubate tubes and plate under anaerobic conditions at 37°C. Incubate aerobic plate(s) and broth tube(s) at 37°C.
6. Growth should be detected within 48 to 72 hours. When examined microscopically the cells appear as long filamentous rods that are motile. After seven days of growth on anaerobic blood agar plates colonies are small, flat, and clear; the edges are slightly irregular.
7. Once growth is established transfer the culture to fresh tubes of medium. This culture does not survive well in broth. It can be stored on a slant for up to 2 weeks at room temperature.

ANAEROBIC CONDITIONS:

- 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.
- Tubes of media are placed under a gassing cannula system hooked to a source of oxygen free gas.
- All transfers are performed while the test tubes are on the cannula system with a gentle stream of oxygen free gas flowing through the system.
- As the test tubes are removed from the cannula system each is sealed with butyl rubber stopper thus maintaining the anaerobic headspace.
- 100% nitrogen or 80% nitrogen-10% carbon dioxide-10% hydrogen gas mixture is typically employed as the oxygen free gas source.

Notes

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.

ATCC Warranty

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Disclaimers

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

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