ATCC

Product Sheet

Geobacter riflensis (ATCC® BAA-1539™)

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: *Geobacter riflensis* (ATCC® BAA-1539™)

Description

Designation: M21

Propagation

Propagation Procedure

1. Sterilize the top of the Balch tube by spraying it with 70% ethanol and then flaming the top.
2. If needed exchange the gas in the test tube for 80% N_2 20% CO_2.
3. When reducing the media, add 0.1 ml (per 10 ml) of each sterile additions before inoculating. Let the medium sit at room temperature for 1 to 2 hours.
4. Allow the frozen vial to thaw under anaerobic conditions. Once thawed, take a gassed 1.0 ml syringe tipped with 22-gauge needle and withdraw the entire contents of the thawed vial and immediately transfer it to a Balch tube.
5. Plate 0.1 ml on a non-selective medium to check for aerobic and anaerobic contamination.
6. Incubate tubes at 26°C and one plate under an anaerobic atmosphere at 37ºC. Incubate non-selective plate aerobically at 37ºC to check for purity.
7. In 5 days, growth should be evident by the clearing of the broth. No growth should occur on the non-selective plate incubated aerobically or anaerobically.

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. 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.

Notes

At inoculation, media is brown to orange in color, but after incubation, the media should be clear with black-brown precipitant. The culture has a very low cell density, with only 5 to 6 cells per view under a phase microscope. Cells are rods that are very motile and appear in both singles and pairs. No growth should occur on Tryptic soy agar with 5% Defibernated Sheep blood.

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.

American Type Culture Collection
PO Box 1549
Manassas, VA 20108 USA
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Fax: 703.365.2750
Email: Tech@atcc.org

Or contact your local distributor

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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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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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