ATCC

Product Sheet

Ferribacterium limneticum (ATCC® 700589™)

Please read this FIRST

Storage Temp.
Frozen: -80°C or colder
Freeze-Dried: 2°C to 8°C
Live Culture: See Propagation Section

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: *Ferribacterium limneticum* (ATCC® 700589™)

Description

Designation: CdA-1
Deposited Name: Unidentified bacterium
Product Description: Type strain

Propagation

Growth Conditions
Temperature: 30°C
Atmosphere: Anaerobic

Propagation Procedure

1. Sterilize the top of the Balch tube by spraying it with 70% ethanol and then flaming the top.
2. Exchange the gas in the test tube for 80% H_2 20% CO_2, do not pressurize over 5psi. If the tubes are over pressurized (20 psi.), inoculating the tubes will prove difficult.
3. Prepare tubes for inoculation: If there is concern that the medium is not anaerobic (see discussion about resazurin B), add 0.1 mL of reducing agent (3% Cysteine stock solution) per 10 mL of medium. Let the medium sit at room temperature for at least 1 hour before inoculating.
4. Thaw the frozen vial under a gentle stream of anaerobic gas. Using an anaerobic (see D) 1.0 mL syringe tipped with 22-gauge needle, withdraw the cell suspension from the vial and transfer to the tube of broth. Transfer 0.5 mL of the inoculated culture to a second tube of broth. Plate 0.1 mL of the inoculated culture onto a non-selective medium and incubate the plate aerobically at 30°C. Incubate culture tubes at 30°C.
5. Growth should be detected in the broth within 5 to 7 days. Growth is enhanced by incubating the cultures with shaking. No growth should be detected on the aerobic plate.

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. 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, titanium citrate and Co-enzyme M.
c. We suggest adding the reducing agent to the medium at least one hour before the medium is to be inoculated.
d. Syringes can be made anaerobic by one of two methods.
    1. Displace the dead space in the syringe with a sterile oxygen-free gas.
    2. Displace the dead space in the syringe with a reducing agent.

Notes

No growth was detected on agar.
Cells are straight or slightly curved rods that occur singly, in pairs and short chains of three to four cells.
Fumarate was found to enhance growth.
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

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

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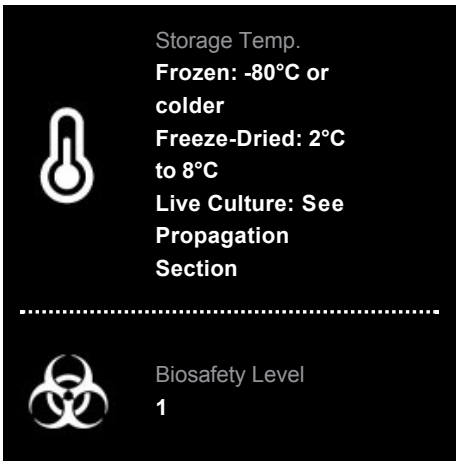

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Disclaimers

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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