

31490TM

Description

Strain designation: 99-78-22

Deposited As: Clostridium thermoaceticum Fontaine et al.

Type strain: No

Patent depository: This material was deposited with the ATCC Patent Depository to fulfill U.S. or international patent requirements. This material may not have been produced or characterized by ATCC. As an International Depository Authority (IDA) for patent deposits, ATCC is required to complete viability testing only at time of initial deposit of patent material. Patent deposits are made available on behalf of the Depositor when the pertinent U.S. or international patent is issued, but material may not be used to infringe the patent claims.

Patent number:

4,371,619

Technical information: ATCC Product Experience does not have technical information on patent deposits that are not produced or characterized by ATCC. Additional information can be found in the corresponding patent available from the patent holder or with the U.S. and/or international patent office.

Storage Conditions

Product format: Freeze-dried

Intended Use

This product is intended for laboratory research use only. It is not intended for any animal or human therapeutic use, any human or animal consumption, or any diagnostic use.



BSL₁

ATCC determines the biosafety level of a material based on our risk assessment as guided by the current edition of *Biosafety in Microbiological and Biomedical Laboratories* (*BMBL*), U.S. Department of Health and Human Services. It is your responsibility to understand the hazards associated with the material per your organization's policies and procedures as well as any other applicable regulations as enforced by your local or national agencies.

ATCC highly recommends that appropriate personal protective equipment is always used when handling vials. For cultures that require storage in liquid nitrogen, it is important to note that some vials may leak when submersed in liquid nitrogen and will slowly fill with liquid nitrogen. Upon thawing, the conversion of the liquid nitrogen back to its gas phase may result in the vial exploding or blowing off its cap with dangerous force creating flying debris. Unless necessary, ATCC recommends that these cultures be stored in the vapor phase of liquid nitrogen rather than submersed in liquid nitrogen.

Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at www.atcc.org.

Growth Conditions

Medium:

ATCC Medium 1190: Thermoanaerobacter ethanolicus medium

Temperature: 60°C **Atmosphere:** Anaerobic



Handling Procedures

1. Open vial according to enclosed instructions.

- 2. Under anaerobic conditions, withdraw 0.5 ml of the recommended broth from a single test tube (5 to 6 ml) and rehydrate the entire vial contents.
- 3. Aseptically transfer this aliquot back into the broth. Additional tubes may be inoculated with 0.5 ml each from the suspension. Streak a blood to check for purity.
- 4. Incubate tubes under an anaerobic atmosphere at 60°C. Incubate the blood plate aerobically for aerobic contamination check.
- 5. Within 3-4 days, growth should be evident by turbidity in the broth. No growth should occur on the agar platesincubated aerobically.

ANAEROBIC CONDITIONS:

Anaerobic conditions for transfer may be obtained by either of the following:

- ·Use of an anaerobic gas chamber, or
- ·Placement of test tubes under a gassing cannula system hooked to anaerobic gas.

Anaerobic conditions for incubation may be obtained by any of the following:

- ·Loose screw caps on test tubes in anaerobic chamber,
- ·Loose screw caps on test tubes in an activated anaerobic gas pack jar, or
- \cdot Use of sterile butyl rubber stoppers on test tubes so that an anaerobic gas headspace is retained.

Notes

Cells are non-motile Gram-positive rods.

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

Material Citation



If use of this material results in a scientific publication, please cite the material in the following manner: *Moorella thermoacetica* (Fontaine et al.) Collins et al. (ATCC 31490)

References

References and other information relating to this material are available at www.atcc.org.

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Revision



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