ATCC

Product Sheet

Mycoplasma fermentans (ATCC® 19989™)

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
2

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: *Mycoplasma fermentans* (ATCC® 19989™)

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

Description

Designation: PG18 [G, NCTC 10117]
Deposited Name: *Mycoplasma fermentans* Edward
Product Description: Type strain

Propagation

Medium
ATCC® Medium 243: Mycoplasma medium

Growth Conditions
Temperature: 37°C
Atmosphere: Anaerobic gas mixture, 80% N_2-10% CO_2-10% H_2

Propagation Procedure

1. Follow instructions as suggested for the culturing of *Mollicutes*:

PROCEDURES FOR PROPAGATING *MOLLICUTES*:

a. Open the vial according to the enclosed instructions.
b. Using a single tube of broth (5 to 6 mL), withdraw approximately 0.5 to 1.0 mL with a Pasteur or 1.0 mL pipette. Rehydrate the entire pellet.
c. Aseptically transfer this aliquot back into the tube. Mix well.
d. Make serial dilutions by transferring 0.5 mL from the original tube to a tube containing 4.5 mL. Repeat process by transferring 0.5 mL from the second to a third tube, etc. Dilutions are important, not only for titration purposes, but also to keep culture in varying stages of growth. Many strains will die out rapidly once acid or alkaline conditions are reached. It is recommended to prepare several dilutions from the initial tube as the cryoprotectant used in the freeze-drying process often inhibits growth.
e. Use an uninoculated tube of broth to serve as a control.
f. Plates may be inoculated to check colony morphology. Each dilution can be spotted on the surface of plate (4 or more/plate) to determine the number of colony-forming units. However, not all strains do well on solid medium.
g. Incubate all tubes and plates under the recommended conditions and appropriate temperature. The time necessary for growth will vary from strain to strain. Growth on plates generally requires additional incubation.
h. Depending on the medium used, growth will be indicated by increased turbidity, a color change, or both.

2. Tubes and plates are incubated under anaerobic conditions using an anaerobe jar or other appropriate method. The incubation temperature is 37°C.
3. This strain will show turbidity in the first few dilution tubes within 48 hours. Additional incubation will be required for colonies to appear on solid medium.
4. Subsequent, fresh transfers will grow more rapidly than the original culture. This strain produces good turbidity.

Notes

Two colony types are observed on #243 agar; 1) circular, entire, low convex with a darker center 2) slightly irregular, low convex and entire.
Item may be propagated aerobically, but should always be incubated under anaerobic conditions using gas packs. Media should be pre-reduced prior to inoculation.
Store vials at freezer temperatures until ready to use.
Purified genomic DNA of this strain is available as ATCC® 19989D™.
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: 2

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Citation of Strain

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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

The viability of ATCC® products is warranted for 30 days from the date of shipment, and is valid only if the product is stored and cultured according to the information included on this product information sheet. ATCC lists the media formulation that has been found to be effective for this strain. While other, unspecified media may also produce satisfactory results, a change in media or the absence of an additive from the ATCC recommended media may affect recovery, growth and/or function of this strain. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

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

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

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