Mycoplasma fermentans Edward

19989™

Description

Mycoplasma fermentans strain PG18 [G, NCTC 10117] is a whole-genome sequenced bacterial type strain and that isolated from a case of ulcerative balanitis. This product has applications in quality control and pharmaceutical and personal care research.

Strain designation: PG18 [G, NCTC 10117]
Deposited As: *Mycoplasma fermentans* Edward
Type strain: Yes

Storage Conditions

Product format: Freeze-dried
Storage conditions: 2°C to 8°C

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.

BSL 2

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 243: Mycoplasma medium
Temperature: 37°C
Atmosphere: Anaerobic

Handling Procedures

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 (0.25 mL), withdraw approximately 0.25 to 0.5 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 0.25 mL from the original tube to a tube containing 2.25 mL. Repeat process by transferring 0.25 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 2-5 days. 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

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.

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Mycoplasma fermentans* Edward (ATCC 19989)

References

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

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