ATCC

Product Sheet

Mycoplasma penetrans (ATCC® 55252™)

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 penetrans* (ATCC® 55252™)

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: GTU-54-6A1
Deposited Name: *Mycoplasma penetrans* Lo et al.
Product Description: Type strain. Produces phospholipase C.

Propagation

Medium
ATCC® Medium 2611: *Spiroplasma* medium

Growth Conditions
Temperature: 37°C
Atmosphere: Aerobic

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 Pasteur or 1.0 mL pipette, withdraw approximately 0.5 to 1.0 mL from a tube containing 2.5 mL. 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 colonial morphology. You can also spot each dilution 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 aerobically. The incubation temperature is 37°C.
3. *Mycoplasma penetrans* grows in 24 hours changing the medium indicator orange and producing good turbidity.
4. For long term storage of *Mycoplasma penetrans,* freeze-drying or freezing is recommended. Liquid nitrogen storage is the best method. Optimally grown cells are centrifuged at 9000 rpm for 30 minutes, the supernatant poured off, and the packed cells resuspended in a smaller amount of #2611 broth. To this, add an equal amount of sterile 20% glycerol as a cryoprotectant. This suspension is aliquoted into small plastic vials and stored at -70°C or below.

Notes

Colonies on #2611 agar plates are entire, small, and slightly irregular.
It is recommended to keep the agar plates in a bag with moisture in place.
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

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

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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

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