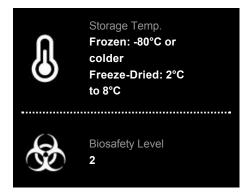


**Product Sheet** 

## Mycoplasma penetrans (ATCC<sup>®</sup> 55252<sup>™</sup>)

#### Please read this FIRST



#### 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 $^{\mathrm{TM}}$ )

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: <u>Tech@atcc.org</u>

Or contact your local distributor

### Description

Designation: GTU-54-6A1

Deposited Name: Mycoplasma penetrans Lo et al.

Product Description: Type strain



### 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 freezeldrying 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.
- 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  $37^{\circ}\text{C}$ .
- 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

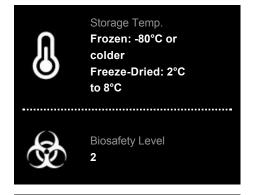
Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the current publication of the *Biosafety in Microbiological and Biomedical Laboratories* from the U.S. Department of Health and Human Services Centers for Disease Control and Prevention and National Institutes for Health.



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

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