



Product Sheet

# *Spiroplasma citri* (ATCC® 27556™)

Please read this **FIRST**



Storage Temp.  
**Frozen: -80°C or colder**  
**Freeze-Dried: 2°C to 8°C**  
**Live Culture: See Propagation Section**

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Biosafety Level  
**1**

## 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: *Spiroplasma citri* (ATCC® 27556™)

American Type Culture Collection  
PO Box 1549  
Manassas, VA 20108 USA  
[www.atcc.org](http://www.atcc.org)

800.638.6597 or 703.365.2700  
Fax: 703.365.2750  
Email: [Tech@atcc.org](mailto:Tech@atcc.org)

Or contact your local distributor

## Description

**Designation:** [Morocco-R8-A2, NCPPB 2647]  
**Deposited Name:** *Spiroplasma citri* Saglio et al.  
**Product Description:** Type strain. Group I, subgroup 1.

## Propagation

### Medium

ATCC® Medium 668: SMC medium

### Growth Conditions

**Temperature:** 32°C  
**Atmosphere:** Anaerobic

### Propagation Procedure

- Follow instructions as suggested for the culturing of Mollicutes:  
PROCEDURES FOR PROPAGATING *MOLLICUTES*:
  - Open the vial according to the enclosed instructions.
  - Using a Pasteur or 1.0 mL pipette, withdraw approximately 0.5 to 1.0 mL from a tube containing 5.0 mL. Rehydrate the entire pellet.
  - Aseptically transfer this aliquot back into the tube. Mix well.
  - 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.
  - Use an uninoculated tube of broth to serve as a control.
  - 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.
  - 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.
- For long term storage of *Spiroplasma citri*, freeze drying or freezing is recommended. If freezing, we recommend storage in liquid nitrogen. 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 the recommended broth. To this, add an equal amount of sterile 20% glycerol as a cryoprotectant. This suspension is dispensed into aliquots in small plastic vials and stored at 70°C or below.

## Notes

Growth in broth may occur between 48 hours and one week. No growth is observed on agar. Purified genomic DNA of this strain is available as ATCC® 27556D™. Additional information on this culture is available on the ATCC® web site at [www.atcc.org](http://www.atcc.org).

## References

References and other information relating to this product are available online at [www.atcc.org](http://www.atcc.org).

## Biosafety Level: 1

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

ATCC® products are warranted for 30 days from the date of shipment, and this warranty is valid only if the product is stored and handled according to the information included on this product information sheet. If the



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27556™)**

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ATCC® product is a living cell or microorganism, ATCC lists the media formulation that has been found to be effective for this product. 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 product. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

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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](http://www.atcc.org)

Additional information on this culture is available on the ATCC web site at [www.atcc.org](http://www.atcc.org).

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