



# 49193

## 49193™

### Description

**Strain designation:** 831-C4

**Deposited As:** *Mycoplasma lactucae* Rose et al.

**Type strain:** Yes

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### Storage Conditions

**Product format:** Freeze-dried

**Storage conditions:** 2°C to 8°C

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### 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.

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### BSL 1

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.

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## Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at [www.atcc.org](http://www.atcc.org).

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## Growth Conditions

### Medium:

ATCC Medium 0988: Spiroplasma medium SP-4

**Temperature:** 30°C

**Atmosphere:** Aerobic

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## Handling Procedures

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

### PROCEDURES FOR PROPAGATING MOLLICUTES:

- a. Using a Pasteur or 1.0 mL pipette, withdraw approximately 0.5 to 1.0 mL from a test tube containing 5 mL of the recommended broth. Rehydrate the entire pellet.
- b. Aseptically transfer this aliquot back into the tube. Mix well.
- c. Make serial dilutions by transferring 0.5 mL from the original tube to a

- tube containing 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.
- d. Use an uninoculated tube of broth to serve as a control.
  - e. Plates may be inoculated to check colony morphology. You can also spot each dilution on the surface of plate to determine the number of colony-forming units. Growth on agar may take longer than growth in broth.
2. Growth in broth is best observed after 5 to 7 days of incubation. Growth is easily recognized by an indicator change from red to orange to yellow. The cells are best transferred when the medium is orange. After medium changes to yellow, cells have started to die.
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## Notes

According to the depositor, this strain will also grow on ATCC #243 Medium: HI Plus Medium w/ YE #3.

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## Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: 49193 (ATCC 49193)

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## References

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

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## Warranty

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