



# *Leptothrix discophora* (Schwers) Dorff

43182™

## Description

Type strain. Produces an iron-oxidizing protein.

**Strain designation:** SS-1

**Deposited As:** *Leptothrix discophora* (Schwers) Dorff

**Type strain:** Yes

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## Storage Conditions

**Product format:** Frozen

**Storage conditions:** -80°C or colder

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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 submerged 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 submerged 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 1503: *Leptothrix* 2X PYG medium

ATCC Medium 1987: *Leptothrix* 2X PYG medium (ATCC medium 1503) without MnSO<sub>4</sub> · H<sub>2</sub>O

**Temperature:** 26°C

**Atmosphere:** Aerobic

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## Handling Procedures

1. Thaw vial quickly in a 37°C water bath.
  2. Aseptically transfer vial contents to 50 mL of #1503 or #1987 broth contained in a 125 mL cotton-stoppered or screw cap flask.
  3. Incubate flask at 26°C with shaking.
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## Notes

Broth should become cloudy, indicating growth, within three days of incubation. At this time, agar slants and/or plates may be inoculated with approximately 0.2 mL each from the broth culture. Additional volumes of broth can be inoculated using a 5 to 10% addition (i.e. 5 to 10 mL inoculum to 100 mL of broth).

This strain will also grow on Nutrient agar (BD 213000).

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

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## Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Leptothrix discophora* (Schwers) Dorff (ATCC 43182)

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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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