



# *Thiobacter sulfrièrensis*

BAA-1515™

## Description

**Strain designation:** SL-1

**Type strain:** Yes

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## Storage Conditions

**Product format:** Frozen

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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 2672: Modified Wolfe's Mineral Medium

**Temperature:** 45°C

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## Handling Procedures

1. Place the frozen vial at room temperature until it thaws.
2. Using a 22 ½ gauge needle and syringe remove the contents of the vial and transfer it into a single tube of #2672 (10.0 ml) broth.
3. Remove 0.5ml with the same needle and syringe and transfer to a second broth tube.
4. Using several drops of the suspension inoculate a #2672 plate.
5. Using a new needle and syringe inject 2.0 ml of sterile air into the headspace of the balch tubes. Plates should be placed into an anaerobe jar with an active catalyst

and a microaerophilic gas generator pack (BD BBL CampyPak Plus 271045), or other acceptable method.

6. Incubate tubes and plate at 45°C, under microaerophilic conditions, for 24 to 48 hours. Slants should be incubated with caps loose.

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## Notes

Colonies on #2672 agar are pinpoint, circular, entire, off-white, and glistening. Under phase contrast, cells are gram-negative motile rods. This organism is an obligate chemolithoautotrophic iron sulfide-oxidizing bacterium. Under microaerophilic conditions SL-1 can utilize elemental sulfur, Thiosulfate, Tetrathionate, FeS, H<sub>2</sub>S and ATCC<sup>®</sup> MD-2094.

Additional information on this culture is available on the ATCC<sup>®</sup> 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: *Thiobacter souffrièrensis* (ATCC BAA-1515)

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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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