



# ***Endothiovibrio diazotrophicus* Bazylnski et al.**

**BAA-1439™**

## **Description**

*Endothiovibrio diazotrophicus* strain S-1 is a bacterial type strain that was isolated from mud and water from school street marsh in Woods Hole, Massachusetts.

**Strain designation:** S-1

**Deposited As:** *Endothiovibrio thiophilum*

**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

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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 2741: Thiosulfate Gradient Medium

**Temperature:** 26°C

**Atmosphere:** 80% N<sub>2</sub>, 20% CO<sub>2</sub>

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### **Handling Procedures**

1. Sterilize the top of the Balch tube by spraying it with 70% ethanol and then flaming the top.
2. If needed exchange the gas in the test tube for 80% N<sub>2</sub> 20% CO<sub>2</sub>.
3. Allow the frozen vial to thaw under anaerobic conditions. Once thawed, take a

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gassed 1.0 ml syringe tipped with 22-gauge needle and withdraw the entire contents of the thawed vial and immediately transfer it to a Balch tube. Inject S-1 into medium; DO NOT MIX. Inject 5.0% air into the head space.

4. When inoculating the agar slant, make the slant biphasic with 0.5 ml to 1 ml of #2741 broth. Inoculate with 0.1 ml of culture from the original broth tube.
  5. Plate 0.1 ml on a non-selective medium to check for aerobic and anaerobic contamination.
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## Notes

After 48 hours of incubation, 1.0% (headspace) of air needs to be added to the inoculated tubes. This helps the organism's respiration process; DO NOT MIX. The culture needs to be incubated in the dark, and the culture can not be inverted until decent growth is achieved. After 3-4 days growth becomes evident (white ring near the surface of the bottle; pink color disappears). After 6-10 days, if string growth is evident as turbidity the culture can be gently mixed to distribute the air. This culture does not have a high density level. Cells have reached the stationary phase when the medium begins to turn brownish.

Weak growth is achieved in biphasic slants. The cells collect at the bottom of the slant. The same rule applies not to invert the biphasic growth until decent growth is achieved.

The cells are highly motile, irregular rods.

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: *Endothiovibrio diazotrophicus* Bazylinski et al. (ATCC BAA-1439)

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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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## Contact Information

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