



# *Albidiferax ferrireducens* corrig. (Finneran et al.) Ramana and Sasikala

BAA-621™

## Description

*Albidiferax ferrireducens* strain T118 is a whole-genome sequenced bacterial type strain that was isolated from an aquifer in Oyster Bay in Virginia.

**Strain designation:** T118 [DSM 15236]

**Deposited As:** *Rhodoferrax ferrireducens* Finneran et al.

**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 2433: *Rhodoferrax ferrireducens* medium

**Temperature:** 26°C

**Atmosphere:** Facultative anaerobe

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### **Handling Procedures**

1. Open vial.
2. Under anaerobic conditions, rehydrate the entire cell pellet with a small amount of #2433 broth. Transfer this aliquot back into the tube of broth.
3. Additional #2433 broth tubes can also be inoculated with 0.5 ml from the

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original broth.

4. Incubate at 26°C for 3-10 days.

### ANAEROBIC CONDITIONS:

Anaerobic conditions for transfer may be obtained by either of the following:

- Use of an anaerobic gas chamber, or
- Placement of test tubes under a gassing cannula system hooked to anaerobic gas.

Anaerobic conditions for incubation may be obtained by any of the following:

- Loose screw caps on test tubes in anaerobic chamber,
- Loose screw caps on test tubes in an activated anaerobic gas pack jar, or
- Use of sterile butyl rubber stoppers on test tubes so that an anaerobic gas headspace is retained.

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### Notes

This culture grows best in broth. Cells are Gram-negative small, motile rods. It is a facultative anaerobe. This organism can utilize 20 to 40 mM nitrate as an electron acceptor replacing Fe-(NTA). Initial growth can take up to 2 weeks but transfers with 10% inoculums take 3 to 5 days.

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### Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Albidiferax ferrireducens* corrig. (Finneran et al.) Ramana and Sasikala (ATCC BAA-621)

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### References

References and other information relating to this material are available at

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

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