



# *Thiobacillus thioparus* Beijerinck

8158™

## Description

*Thiobacillus thioparus* is an extremophilic bacterial type strain that is propagated under aerobic conditions.

**Deposited As:** *Thiobacillus thioparus* Beijerinck

**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 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 290: S-6 medium for Thiobacilli

**Temperature:** 26°C

**Atmosphere:** Aerobic

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## Handling Procedures

1. Open vial.
2. Withdraw 0.5 ml of the recommended broth from a single test tube (5 to 6 ml) and rehydrate the entire vial contents.
3. Aseptically transfer this aliquot back into the broth tube. Additional broth and slant tubes may be inoculated with 0.3 ml each from the initial broth tube. Agar plates may be inoculated using 0.1 ml of the initial broth per plate.

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4. Incubate tubes and plates at 26°C.
  5. After approximately 7 days of incubation, growth should be evident by turbidity in the broth and by colonies on the agar surfaces.
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### **Notes**

Cells are small motile rods occurring singly, in pairs and sometimes in short chains. Cells are Gram negative. Colonies are small (less than 0.5 mm diameter), circular, with a convex elevation. Colonies become opaque and develop a pale yellow color with age.

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: *Thiobacillus thioparus* Beijerinck (ATCC 8158)

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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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## **Revision**

This information on this document was last updated on 2023-12-20

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