



Product Sheet

# *Acidithiobacillus thiooxidans* (ATCC® 8085™)

Please read this **FIRST**



Storage Temp.  
**Frozen: -80°C or colder**  
**Freeze-Dried: 2°C to 8°C**  
**Live Culture: See Propagation Section**

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Biosafety Level  
**1**

## Intended Use

This product is intended for research use only. It is not intended for any animal or human therapeutic or diagnostic use.

## Citation of Strain

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: *Acidithiobacillus thiooxidans* (ATCC® 8085™)

American Type Culture Collection  
PO Box 1549  
Manassas, VA 20108 USA  
[www.atcc.org](http://www.atcc.org)

800.638.6597 or 703.365.2700  
Fax: 703.365.2750  
Email: [Tech@atcc.org](mailto:Tech@atcc.org)

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## Description

**Designation:** [IFO 13701, NCIB 9112]

**Deposited Name:** *Thiobacillus thiooxidans* Waksman and Joffe

## Propagation

### Medium

ATCC® Medium 125: Thiobacillus medium

### Growth Conditions

**Temperature:** 26°C

**Atmosphere:** Aerobic

### Propagation Procedure

1. Incubate the test tube culture at room temperature for 1 to 2 weeks upon arrival.
2. After the sulfur has settled to the bottom of the test tube examine the culture by phase microscopy to insure growth has occurred.
3. Use the entire tube to inoculate 100 mL of Medium #125 (in a 250 mL screw cap flask) and then place the flask on a shelf at room temperature.
4. Let the flask incubate for 2 to 4 weeks. Growth is indicated when the sulfur settles to the bottom of the flask.

## Notes

When examined by phase microscopy cells appear as rods in singles and pairs. The culture generally does not exhibit turbidity.

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

## References

References and other information relating to this product are available online at [www.atcc.org](http://www.atcc.org).

## Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the current publication of the *Biosafety in Microbiological and Biomedical Laboratories* from the U.S. Department of Health and Human Services Centers for Disease Control and Prevention and National Institutes for Health.

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