



***Acidithiobacillus thiooxidans* (Waksman and Joffe) Kelly and Wood**

8085™

Description

Strain designation: [IFO 13701, NCIB 9112]

Deposited As: *Thiobacillus thiooxidans* Waksman and Joffe

Type strain: No

Storage Conditions

Product format: Test tube

Storage conditions: See handling procedure

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.

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.

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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.

Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at www.atcc.org.

Growth Conditions

Medium:

ATCC Medium 0125: Thiobacillus medium

Temperature: 26°C

Atmosphere: Aerobic

Handling Procedures

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

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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.

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Acidithiobacillus thiooxidans* (Waksman and Joffe) Kelly and Wood (ATCC 8085)

References

References and other information relating to this material are available at www.atcc.org.

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