ATCC

Product Sheet

Acidithiobacillus thiooxidans (ATCC® 55020™)

Please read this FIRST

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® 55020™)

American Type Culture Collection
PO Box 1549
Manassas, VA 20108 USA
www.atcc.org

800.638.6597 or 703.365.2700
Fax: 703.365.2750
Email: Tech@atcc.org

Or contact your local distributor

Description

Designation: BNL-3-24
Deposited Name: *Thiobacillus thiooxidans* Waksman and Joffe

Propagation

Medium
ATCC® Medium 125: Thiobacillus medium

Growth Conditions
Temperature: 26.0°C

Propagation Procedure
1. For best results, medium should be prepared ahead of time. If medium is not ready when the test tube culture arrives, place at 26ºC until it is to be used.
2. Once the medium is ready, transfer 0.5 1.0 ml of culture to a test tube containing 5 to 10 ml of ATCC Medium #125. Transfer 0.5 ml of the culture to a second tube of #125.
3. Slant the tubes and incubate at 26ºC for 2 to 4 weeks. Growth is indicated by all of the sulfur settling to the bottom of the tube.
4. After the sulfur has settled to the bottom of the test tube, examine the culture by phase microscopy to insure growth has occurred.
5. After growth has been obtained, inoculate multiple tubes of #125 broth, slant the tubes and incubate at 26ºC.
6. Use 10 to 20 ml of culture to inoculate 100 ml of #125 (in a 250 ml screw cap flask) and then place the flask on a shelf at room temperature (26ºC).
7. Let the flask incubate for 2 to 4 weeks. Growth is indicated when the sulfur settles to the bottom of the flask.

Notes

This strain is a released patent culture and it is not axenic.

Additional information on this culture is available on the ATCC web site at www.atcc.org.

References

References and other information relating to this product are available online at 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.

ATCC Warranty

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Please see the enclosed Material Transfer Agreement (MTA) for further details regarding the use of this product. The MTA is also available on our Web site at www.atcc.org

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