



***Acidithiobacillus albertensis* (Bryant et al.)** **Kelly and Wood**

35403™

Description

Strain designation: [DSM 14366]

Deposited As: *Thiobacillus albertis* Bryant et al.

Type strain: Yes

Storage Conditions

Product format: Frozen

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 1353: *Thiobacillus albertis* medium

Temperature: 30°C

Handling Procedures

1. For best results have the media prepared ahead of time. If media is not ready when the frozen culture arrives place the frozen vial at 20 or 80°C until it is to be used.
2. Place the vial at room temperature and let thaw. Once the culture has thawed, transfer to a tube containing 5 to 6 ml of ATCC Medium #1353. Transfer 0.5 ml of the culture to a second tube of #1353.

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3. Incubate the tubes at 30°C for 4 to 6 days. Growth is indicated by uniform turbidity in the broth and the precipitation of sulfur to the bottom of the tube.
 4. Examine the culture by phase microscopy to insure growth has occurred.
 5. After growth has been obtained, inoculate multiple tubes and plates of ATCC Medium #1353.
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Notes

Cells are Gram negative motile rods. Sulfur deposits can be detected within the cells. On #1353 plates the culture forms pinpoint colonies which are surrounded by sulfur deposits.

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 albertensis* (Bryant et al.) Kelly and Wood (ATCC 35403)

References

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

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