



Thermithiobacillus tepidarius (Wood and Kelly) Kelly and Wood

43215™

Description

Thermithiobacillus tepidarius strain DSM 3134 is a thermophilic bacterial type strain that was isolated from thermal spring water in England.

Strain designation: DSM 3134 [DSM 313]

Deposited As: *Thiobacillus tepidarius* Wood and Kelly

Type strain: Yes

Storage Conditions

Product format: Freeze-dried

Storage conditions: 2°C to 8°C

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

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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 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 1510: Thiobacillus tepidarius medium

ATCC Medium 290: S-6 medium for Thiobacilli

Temperature: 45°C

Atmosphere: Aerobic

Handling Procedures

1. Open vial.
2. Rehydrate the entire pellet with approximately 0.5 mL of the recommended broth. Aseptically transfer the entire contents to a 5-6 mL tube of the

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recommended broth. Additional test tubes can be inoculated by transferring 0.5 mL of the primary broth tube to these secondary tubes.

3. Use several drops of the primary broth tube to inoculate a plate and/or agar slant.
4. Incubate at 45°C for 4-7 days.

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Thermithiobacillus tepidarius* (Wood and Kelly) Kelly and Wood (ATCC 43215)

References

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

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