



# *Chlorobaculum tepidum* (Wahlund et al.) Imhoff

49652™

## Description

Type strain. Genome sequenced strain.

**Strain designation:** TLS [CIP 105973]

**Deposited As:** *Chlorobium tepidum* Wahlund et al.

**Type strain:** Yes

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## Storage Conditions

**Product format:** Frozen

**Storage conditions:** -80°C or colder

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## 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.

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## 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.

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.

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## Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at [www.atcc.org](http://www.atcc.org).

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## Growth Conditions

**Medium:**

ATCC Medium 37: Chromatium medium

ATCC Medium 260: Trypticase soy agar/broth with defibrinated sheep blood

**Temperature:** 45°C**Atmosphere:** Aerobic

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## Handling Procedures

1. Open thawed vial according to enclosed instructions or visit [www.atcc.org](http://www.atcc.org) for instructions.

2. Remove 6 mL of pre-mixed #37 media from primary tube and aseptically transfer the entire contents of thawed vial to that tube. Additional test tubes can be inoculated by transferring up to 2 mL of the primary broth tube to secondary broth tubes. Fill the test tubes to capacity with additional #37 broth, leaving a small air bubble for expansion. Seal the test tube with a screw cap.
3. Incubate at 45°C under a tungsten lamp for 3-7 days. The light should be on a 12 hour cycle (12 hours on/ 12 hours off). Incubate one #260 agar plate aerobically at 37°C to check for contamination.
4. Use 10-20% of an actively growing culture to inoculate fresh tubes of medium.

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## Notes

ATCC Medium #37 may be stored separately as solution 1, solution 2/3 and solution 4. In a small screw cap tube, mix 5 mL of solution 1, 3 mL of solution 2/3, 0.2 mL of solution 4, and reduce the media with 0.1 mL of a 10% Thiosulphate solution. Place tubes in the dark for 24 hours prior to inoculation. A hazy, white precipitate should develop in the tubes overnight.

After 3-7 days, growth is evident by turbidity and a deep green pigmentation throughout the broth. When examined microscopically, the cells appear as small short rods in singles and pairs and are non-motile. The culture should be fed sodium sulfide at least once a week. This culture is oxygen-tolerant therefore strictly anoxic conditions are not required when using a large inoculum.

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

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## Material Citation

If use of this material results in a scientific publication, please cite the

material in the following manner: *Chlorobaculum tepidum* (Wahlund et al.)  
Imhoff (ATCC 49652)

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## References

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

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