



# *Thermus filiformis* Hudson et al.

43280™

## Description

**Strain designation:** Wai33 A1

**Deposited As:** *Thermus filiformis* Hudson et al.

**Type strain:** Yes

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## Storage Conditions

**Product format:** Freeze-dried

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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 461: Castenholz TYE medium

**Temperature:** 70°C

## Handling Procedures

1. Open vial according to enclosed instructions.
2. Using a single tube of #461 broth (5 to 6 ml), withdraw approximately 0.6 ml with a Pasteur or 1.0 ml pipette. Rehydrate the entire pellet.
3. Aseptically transfer 0.3 ml of this suspension back into the broth tube. Mix well.
4. Use the remaining 0.3 ml of the suspension to inoculate a slant of #461 agar.
5. Incubate tubes at 70°C. For best results, incubate tubes within a closed jar with a

moistened paper towel added to maintain humidity and prevent desiccation.

**6. Once growth is obtained in broth, plates can be inoculated with approximately 0.2 ml per plate. Better growth is obtained on plates when incubated at 60°C than at 70°C. Plates should be taped shut to prevent desiccation.**

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## Notes

Yellow growth should be visible in broth and slant tubes after 24 to 48 hours of incubation. After 48 hours, the colonies on plates are circular, with a convex elevation, entire margin, and a smooth surface. They are dark yellow in color.

At 1000X magnification, cells are threadlike.

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: *Thermus filiformis* Hudson et al. (ATCC 43280)

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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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