



Product Sheet

# *Thermus aquaticus* (ATCC® 25104™)

Please read this **FIRST**



## 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: *Thermus aquaticus* (ATCC® 25104™)

## Description

**Designation:** YT-1 [DSM 625, JCM 10724, LMG 8924, NCAIM B.01703, NCIB 11243]

**Deposited Name:** *Thermus aquaticus* Brock and Freeze

## Propagation

### Medium

ATCC® Medium 461: Castenholz TYE medium

### Growth Conditions

**Temperature:** 70.0°C

### Propagation Procedure

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 achieved on plates when incubated at 60°C rather than 70°C. Plates should be incubated in a jar as described above or taped shut to prevent desiccation.

## Notes

Yellow growth should be visible in broth and slant tubes after 24 to 48 hours of incubation. At 1000X magnification, cells are long, regular rods occurring singly or occasionally as end-to-end pairs. 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 and can be up to 1 mm in diameter.

## References

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

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the misidentification or misrepresentation of such materials.

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](http://www.atcc.org)

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

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