



Thermococcus zilligii Ronimus et al.

700529™

Description

Strain designation: DSM 2770 [AN1, ANI, JCM 10554, TG 57]

Deposited As: *Thermococcus zilligii* Ronimus et al.

Type strain: Yes

Storage Conditions

Product format: Freeze-dried

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.



Biosafety Level 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.

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 2094: AN 1 medium

Temperature: 75°C

Atmosphere: Anaerobic

Handling Procedures

1. Open vial according to enclosed instructions.
2. Under anaerobic conditions, withdraw approximately 0.5 to 1.0 ml from a tube of medium #2094 with a Pasteur or 1.0 ml pipette. Re-hydrate the pellet.
3. Aseptically transfer this aliquot back into the broth tube. Mix well.

4. After 4 to 7 days of incubation at 75°C, turbidity will be observed.
5. Transfers can now be made to other tubes of broth, slants, and/or plates
6. The aerobic plates may have a thin film in the area of heaviest inoculation; however, it should show no other signs of aerobic contamination.

ANAEROBIC CONDITIONS:

Anaerobic conditions for transfer may be obtained by either of the following:

- Use of an anaerobic gas chamber, or
- Placement of test tubes under a gassing cannula system hooked to anaerobic gas.

Anaerobic conditions for incubation may be obtained by any of the following:

- Loose screw caps on test tubes in anaerobic chamber,
- Loose screw caps on test tubes in an activated anaerobic gas pack jar, or
- Use of sterile butyl rubber stoppers on test tubes so that an anaerobic gas headspace is retained.

Notes

The cells are irregular cocci that grow well at pH 6.0. The optimal temperature for growth is between 70-85°C but growth is also observed at 95°C. Strain produces high amounts of gas, so make sure tubes are vented. The ATCC recommends an anaerobic technique that utilizes Hungate tubes, because growth is enhanced when tubes are pressurized (20-40 psi).

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: *Thermococcus zilligii* Ronimus et al. (ATCC 700529)

References

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

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