



Product Sheet

# *Thermococcus gorgonarius* (ATCC® 700654™)

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: *Thermococcus gorgonarius* (ATCC® 700654™)

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Manassas, VA 20108 USA  
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## Description

**Designation:** DSM 10395 [W-12]

**Deposited Name:** *Thermococcus gorgonarius* Miroshnichenko et al.

## Propagation

### Medium

ATCC® Medium 2104: Marine Thermococcus medium

### Growth Conditions

**Temperature:** 85.0°C

**Atmosphere:** Anaerobic

### Propagation Procedure

1. Open vial according to enclosed instructions.
2. Obtain a single tube of #2104 broth (5 to 6 ml), and under anaerobic conditions, withdraw approximately 0.5 to 1.0 ml 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, turbidity should be observed.
5. Transfers can now be made to other tubes of broth, slants, and/or plates

### 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 or
  - Exchanging the headspace in stoppered culture tubes for the appropriate 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 Pak 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 6.5-7.5. The optimal temperature for growth is between 80-88°C, but growth is also observed at 70°C and 95°C. The ATCC suggests the anaerobic technique that utilizes Hungate tubes because growth is enhanced when tubes are pressurized (20-40 psi).

## 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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## Disclaimers

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

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