



Product Sheet

# *Thermococcus barossii* (ATCC® BAA-1085™)

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 barossii* (ATCC® BAA-1085™)

American Type Culture Collection  
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Manassas, VA 20108 USA  
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Fax: 703.365.2750  
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## Description

**Designation:** SHCK-94 [JCM 12858]

**Deposited Name:** *Thermococcus barossii* Duffaud et al.

## Propagation

### Medium

ATCC® Medium 1922: Marine agar or marine broth with sulfur

### Growth Conditions

**Atmosphere:** nitrogen (N<sub>2</sub>), 80%; carbon dioxide (CO<sub>2</sub>), 20%

**Temperature:** 80.0°C

### Propagation Procedure

1. Sterilize the top of the Balch tube by spraying it with 70% ethanol and then flame the top.
2. If needed exchange the gas in the test tube for 80% N<sub>2</sub>-20% CO<sub>2</sub>.
3. Open vial according to enclosed instructions.
4. Under anaerobic conditions, withdraw 0.5 ml of recommended broth from a single test tube (5 to 6 ml) and rehydrate the entire vial contents.
5. Aseptically, using a 1.0 ml syringe tipped with 22-gauge needle, withdraw the cell suspension from the vial and transfer it to the broth. Plate 0.1 ml of the inoculated culture onto a non-selective medium and incubate aerobically at 30°C. Use 0.1 ml of the inoculated culture to inoculate a non-selective aerobic broth. Incubate the inoculated tubes at 30°C.
6. Growth should be detected in the #1922 broth in 24. There should be no growth detected on the aerobic plate or broth.

### ANAEROBIC CONDITIONS:

- a. Resazurin is a commonly used redox indicator that is pink when the redox potential is above 50 mv., and colorless when the redox potential is below 110 mv. i.e. highly reducing. Most strict anaerobes require this low redox potential for optimum growth.
- b. To obtain a fully reduced medium, it is necessary that the medium be anoxic and that a reducing agent be added. Common reducing agents are sodium sulfide, cysteine, dithiothreitol, and titanium citrate.
- c. Syringes can be made anaerobic by one of two methods. 1. Displace the dead space in the syringe with a sterile

## 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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## ***Thermococcus barossii*** **(ATCC® BAA-1085™)**

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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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