



Product Sheet

Thermoanaerobacter brockii subsp. brockii (ATCC® 35047™)

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: *Thermoanaerobacter brockii subsp. brockii* (ATCC® 35047™)

Description

Designation: HTRI

Deposited Name: *Thermoanaerobium brockii* Zeikus et al.

Propagation

Medium

ATCC® Medium 1107: *Thermoanaerobium brockii* medium

Growth Conditions

Temperature: 60.0°C

Atmosphere: Anaerobic

Propagation Procedure

1. Sterilize the top of the Balch tube (see below) by spraying it with 70% ethanol and then flaming the top.
2. If needed exchange the gas in the test tube for 100% N₂
3. If the medium is pink (see discussion about resazurin) add 2.0 ml of reducing agent (1.5% Na₂S·9H₂O stock solution) per 100 ml of medium. Let the medium sit at room temperature for 10 to 20 minutes - until the resazurin becomes colorless - before inoculating.
4. When the Balch tube is ready to inoculate, open the vial according to enclosed instructions.
5. For inoculation, use an anaerobic 1.0 ml syringe (see below) tipped with 22-gauge needle. Withdraw 0.5 ml of #1107 broth and use this to rehydrate the freeze-dried pellet. Immediately place the rehydrated vial under a stream of sterile oxygen-free gas.
6. Using the same syringe, transfer the rehydrated cell suspension back to a tube of #1107 broth. Plate 0.1 ml of the inoculated culture onto a non-selective medium and incubate aerobically at 37°C
7. Growth should be detected in the #1107 broth within 24 hours. There should be no growth detected on the aerobic plate.

ANAEROBIC CONDITIONS:

- a. Balch tube refers to a special type of test tube that is designed to be pressurized and is suited for anaerobic work. The Balch test tubes can be purchased from Bellco glass (www.bellcoglass.com; stock no. 2048-00150).
- b. 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.
- c. 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.
- d. Syringes can be made anaerobic by one of two methods. 1. Displace the dead space in the syringe with a sterile

Notes

Cells appear as rods in single pairs and long chains. Some of the rods may have an irregular shape.

References

References and other information relating to this product are available online at 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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American Type Culture Collection
PO Box 1549
Manassas, VA 20108 USA
www.atcc.org

800.638.6597 or 703.365.2700
Fax: 703.365.2750
Email: Tech@atcc.org

Or contact your local distributor



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function of this product. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

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Additional information on this culture is available on the ATCC web site at www.atcc.org.

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PO Box 1549
Manassas, VA 20108 USA
www.atcc.org

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Fax: 703.365.2750
Email: Tech@atcc.org

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