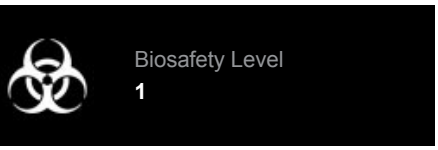
ATCC

Product Sheet

Nautilia profundicola (ATCC® BAA-1463™)

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: *Nautilia profundicola* (ATCC® BAA-1463™)

Description

Designation: AmH

Propagation

Medium
ATCC® Medium 2686: BAA-1463, Nautilia profundicola

Growth Conditions
Temperature: 45°C
Atmosphere: Anaerobic; 80% H_2-20% CO_2

Propagation Procedure
1. Sterilize the top of the all test tubes by spraying them with 70% ethanol and then flaming the tops.
2. If needed, exchange the gas in each test tube for 80% H_2 20% CO_2 (do not over-pressurize; keep the pressure below 20 PSI).
3. Thaw the frozen vial at room temperature.
4. Employ anaerobic techniques. For inoculation, use a 1.0 ml syringe tipped with 22-gauge needle, and withdraw the entire contents of the vial. Transfer the cell suspension to a broth tube. Transfer 0.5 ml of the culture to an additional tube of #2686 broth. Plate 0.1 ml of the inoculated culture onto a non-selective medium and incubate aerobically at 37ºC. Use 0.1 ml of the inoculated culture to inoculate a nonselective aerobic broth. Incubate the broth tubes at 45ºC.
5. Growth should be detected in the #2686 broth within 2 to 3 days. There should be no growth detected on the aerobic plate or in the aerobic broth.

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 form 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

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

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.

ATCC Warranty

ATCC® products are warranted for 30 days from the date of shipment, and this warranty is valid only if the product is stored and handled according to the information included on this product information sheet. If the ATCC® product is a living cell or microorganism, ATCC lists the media formulation that has been found to be effective for this product. While other, unspecified media may also produce satisfactory results, a change in media or the absence of an additive from the ATCC recommended media may affect recovery, growth and/or function of this product. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

Disclaimers

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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Biosafety Level
1

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This product is intended for laboratory research purposes only. It is not intended for use in humans.
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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

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