



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<sub>2</sub>-20% CO<sub>2</sub>

### 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<sub>2</sub> 20% CO<sub>2</sub> (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 37°C. Use 0.1 ml of the inoculated culture to inoculate a nonselective aerobic broth. Incubate the broth tubes at 45°C.
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 from Bellco glass ([www.bellcoglass.com](http://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](http://www.atcc.org).

## 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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