



# *Nautilia profundicola*

**BAA-1463™**

## Description

**Strain designation:** AmH

**Type strain:** Yes

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## Storage Conditions

**Product format:** Frozen

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## Intended Use

This product is intended for laboratory research use only. It is not intended for any animal or human therapeutic use, any human or animal consumption, or any diagnostic use.

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## BSL 1

ATCC determines the biosafety level of a material based on our risk assessment as guided by the current edition of *Biosafety in Microbiological and Biomedical Laboratories (BMBL)*, U.S. Department of Health and Human Services. It is your responsibility to understand the hazards associated with the material per your organization's policies and procedures as well as any other applicable regulations as enforced by your local or national agencies.

ATCC highly recommends that appropriate personal protective equipment is always used when handling vials. For cultures that require storage in liquid nitrogen, it is important to note that some vials may leak when submersed in liquid nitrogen and

will slowly fill with liquid nitrogen. Upon thawing, the conversion of the liquid nitrogen back to its gas phase may result in the vial exploding or blowing off its cap with dangerous force creating flying debris. Unless necessary, ATCC recommends that these cultures be stored in the vapor phase of liquid nitrogen rather than submersed in liquid nitrogen.

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## Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at [www.atcc.org](http://www.atcc.org).

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## Growth Conditions

**Medium:**

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

**Temperature:** 45°C

**Atmosphere:** 80% H<sub>2</sub>, 20% CO<sub>2</sub>

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## Handling Procedures

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

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## Notes

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

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## Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Nautilia profundicola* (ATCC BAA-1463)

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## References

References and other information relating to this material are available at [www.atcc.org](http://www.atcc.org).

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## Contact Information

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