



# *Nitrosospira lacus*

BAA-2542™

## Description

Type strain. Chemolithotrophic ammonia oxidizing, psychrotolerant, light intolerant.

**Strain designation:** APG3

**Deposited As:** *Nitrosospira lacus*

**Type strain:** Yes

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## Storage Conditions

**Product format:** Frozen

**Storage conditions:** -80°C or colder

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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 929: Nitrosolobus medium

**Temperature:** 26°C**Atmosphere:** Aerobic

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## Handling Procedures

1. Thaw frozen vial at room temperature and aseptically transfer vial contents to 6 mL of #929 broth contained in an Broth tube or 10 mL of #929 broth contained in an Erlenmeyer flask.
2. Incubate flask in the dark at 26°C. Erlenmeyer flasks can be incubated in a shaker.
3. Growth should be evident in 7 to 14 days. After growth has been established, the culture can be transferred.

4. When transferring the culture, use 10% inoculum.
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## Notes

Culture does not grow on agar. After culture is established in broth, cells are motile, spiral Gram-negative rods.

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: *Nitrospira lacus* (ATCC BAA-2542)

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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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