

25978<sup>TM</sup>

## **Description**

Nitrosomonas europaea strain C-31 is a whole-genome sequenced bacterial type strain.

**Strain designation:** C-31

Deposited As: Nitrosomonas europaea Winogradsky

Type strain: Yes

## **Storage Conditions**

**Product format:** Frozen

Storage conditions: -80°C or colder

#### 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.

#### BSL<sub>1</sub>

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.

## Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at www.atcc.org.

#### **Growth Conditions**

**Medium:** 

ATCC Medium 2265: Nitrosomonas europaea medium

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

## Handling Procedures

- Thaw frozen vial and aseptically transfer vial contents to 15 mL of ATCC broth #2265 contained in an Erlenmeyer flask or a tissue culture flask. A second flask should also be inoculated. Take 1.0 mL from flask #1 and transfer it to a new flask containing 15 mL.
- 2. Incubate the flasks in the dark at 26°C. When using a tissue culture flask, flask should be laid down for incubation to promote air exchange.

3. As the cells multiply, an increase in turbidity is noted. Abundant growth should be evident in static culture in 7 to 14 days. The rate of growth can be accelerated by incubation on a reciprocal shaker (3 to 5 days).

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#### Notes

Transfer culture every four to six weeks, storing the fully grown culture at 4°C. A 10% inoculum (10 mL per 100 mL fresh medium) is recommended. Cells may be preserved by freezing with a suitable cryoprotectant.

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

#### Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Nitrosomonas europaea* Winogradsky (ATCC 25978)

#### References

References and other information relating to this material are available at www.atcc.org.

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#### Revision

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