



Nitrosomonas europaea Winogradsky

19718™

Description

Nitrosomonas europaea is a whole-genome sequenced bacterial strain. The depositor states that this strain produces hydroxylamine oxidase.

Deposited As: *Nitrosomonas europaea* Winogradsky

Type strain: No

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 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.

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

1. Open thawed vial according to enclosed instructions or visit www.atcc.org for instructions.
2. Thaw the frozen vial quickly by immersing in a 37°C water bath and gently swirling until the ice melts, then aseptically transfer the vial contents to 10 mL of ATCC broth #2265 contained in an Erlenmeyer flask or a tissue culture flask.
3. Incubate the flask in a shaking incubator at approximately 200 rpm at 26°C.

- Ensure that the flask is being incubated in the dark by covering with foil.
4. Growth should be evident within 3-5 days, appearing as a cloudy turbidity within the broth or a positive nitrite test.
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Notes

Media ATCC #2265 is light sensitive and degrades after prolonged exposure to light, approximately 3 months. Cover media in foil to extend the shelf life. After 3 months new media should be prepared to ensure the best viability of the organism. Transfer the culture every 1-3 weeks, storing the fully grown culture at 4°C. A 10% inoculum (10 mL per 100 mL fresh medium) is recommended. This strain is very sensitive to impurities on glassware.

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 19718)

References

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

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