



Product Sheet

Nitrosospira multiformis (ATCC® 25196™)

Please read this FIRST



Storage Temp.
Frozen: -80°C or colder
Freeze-Dried: 2°C to 8°C
Live Culture: See Propagation Section



Biosafety Level
1

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: *Nitrosospira multiformis* (ATCC® 25196™)

American Type Culture Collection
PO Box 1549
Manassas, VA 20108 USA
www.atcc.org

800.638.6597 or 703.365.2700
Fax: 703.365.2750
Email: Tech@atcc.org

Or contact your local distributor

Description

Designation: C 71

Deposited Name: *Nitrosolobus multiformis* Watson et al.

Product Description: Type strain

Propagation

Medium

ATCC® Medium 929: Nitrosolobus medium

Growth Conditions

Temperature: 26°C with shaking

Atmosphere: Aerobic

Propagation Procedure

1. Open vial according to enclosed instructions.
2. Rehydrate the entire contents of the vial with 0.5 mL of #929 broth.
3. Transfer this aliquot into a 25 cm² T-flask with 5 mL #929.
4. Establish growth in the primary culture before transferring.
5. Additional medium may be inoculated when culture pH needs adjustment every 1 to 2 days and cell numbers reach greater than 1 cell per field at 1000X magnification. A 10% inoculum is suggested. It can take up to 3 weeks for cultures to become turbid.
6. Incubate with shaking at 26°C.
7. For optimal growth, the pH of the medium must be periodically adjusted to 7.5. Medium #929 contains the pH indicator phenol red. As growth occurs, medium pH will drop. Medium color will change from pink to orange and then to yellow. Whenever the medium becomes yellow, adjust pH as follows: aseptically add 0.3 M K₂CO₃ dropwise until color returns to pink. Avoid raising the pH of the culture above 7.5.
8. The medium should turn yellow indicating initial growth within the first week of incubation. Adjust pH and check cell numbers microscopically. Continue incubation, adjusting medium pH as needed.

Notes

This strain was originally deposited as *Nitrosolobus multiformis*.

If strain is received as a broth culture, transfer to fresh medium upon arrival.

It is imperative that the medium be prepared according to directions in clean glassware. Medium may be dispensed into tissue culture flasks rather than glass flasks to avoid trace contaminants sometimes found on glassware.

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

References

References and other information relating to this product are available online at 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.

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