



Product Sheet

# *Nitrosospira multiformis* (ATCC® 25198™)

Please read this **FIRST**



## 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® 25198™)

## Description

**Designation:** C 22

**Deposited Name:** *Nitrosolobus multiformis* Watson et al.

## Propagation

### Medium

ATCC® Medium 438: Nitrosolobus medium

### Growth Conditions

**Temperature:** 30.0°C

### Propagation Procedure

1. Open vial according to enclosed instructions.
2. Using a single tube of #438 broth (5 to 6 ml), withdraw approximately 0.5 to 1.0 ml with a Pasteur or 1.0 ml pipette. Rehydrate the entire pellet.
3. Aseptically transfer this aliquot back into the broth tube. Mix well.
4. Aseptically transfer 2 ml of vial contents to 25 ml of #438 broth contained in an Erlenmeyer flask or a tissue culture flask.
5. Incubate flask in the dark at 30°C. When using a tissue culture flask, flask should be laid down for incubation to promote air exchange.
6. As the cells multiply, the indicator in the medium will change from pink to yellow. The pH of the medium should be maintained at 7.8 to 8.2 (pink) during growth by neutralizing with a drop or two of sterile 0.1M potassium carbonate.
7. Abundant growth should be evident in static culture in 10 to 14 days. The rate of growth can be accelerated by incubation on a reciprocal shaker (4 to 6 days).

## Notes

Transfer the 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.

To reduce constant monitoring of the medium during growth, 0.05M HEPES buffer can be added to the media formula. This will help to maintain the pH necessary for growth.

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

## References

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

This product is intended for laboratory research purposes only. It is not intended for use in humans.

While ATCC uses reasonable efforts to include accurate and up-to-date information on this

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Manassas, VA 20108 USA  
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Manassas, VA 20108 USA  
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Fax: 703.365.2750  
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