ATCC

Product Sheet

Nitrosospira multiformis (ATCC® 25198™)

Please read this FIRST

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® 25198™)

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 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 30ºC. 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 4ºC. 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.

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.

ATCC Warranty

The viability of ATCC® products is warranted for 30 days from the date of shipment, and is valid only if the product is stored and cultured according to the information included on this product information sheet. ATCC lists the media formulation that has been found to be effective for this strain. While other, unspecified media may also produce satisfactory results, a change in media or the absence of an additive from the ATCC recommended media may affect recovery, growth and/or function of this strain. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

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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Please see the enclosed Material Transfer Agreement (MTA) for further details regarding the use of this product. The MTA is also available on our Web site at www.atcc.org

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