



Product Sheet

# *Thiobacillus denitrificans* (ATCC® 23642™)

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: *Thiobacillus denitrificans* (ATCC® 23642™)

## Description

**Designation:** 4G [NCIB 9546]

**Deposited Name:** *Thiobacillus denitrificans* Kelly and Harrison

## Propagation

### Medium

ATCC® Medium 295: S-8 medium for Thiobacillus

### Growth Conditions

**Temperature:** 30.0°C

**Atmosphere:** Anaerobic

### Propagation Procedure

1. Open vial according to enclosed instructions.
2. Using a single tube of #295 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. Transfer 0.5 ml of the suspension into a second tube of broth.
4. Place tubes with caps loosened in an anaerobe jar or other acceptable method for obtaining anaerobic conditions. Incubate at 30°C.
5. Broth becomes cloudy, indicating growth, after approximately 7 days of incubation. Agar slants and plates may now be inoculated with 0.2 ml each from the 7 day broth culture. Additional volumes of broth can be inoculated using a 5% inoculum (i.e. 5 ml to 100 ml fresh broth).

## Notes

Better growth may be achieved on initial rehydration in the second tube. The cryoprotectant used in the freeze-drying process may inhibit growth in the primary tube.

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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the misidentification or misrepresentation of such materials.

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](http://www.atcc.org)

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

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