**Designation:** T1

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

**Product Description:** Genome sequenced strain.

### Medium

ATCC® Medium 450: T2 medium for *Thiobacillus* growth

### Growth Conditions

**Temperature:** 30°C

**Atmosphere:** Anaerobic

### Propagation Procedure

1. Open vial according to enclosed instructions or visit www.atcc.org for instructions.
2. Under anaerobic conditions aseptically rehydrate the entire pellet with approximately 0.5 mL of #450 broth. Aseptically transfer the entire contents to a 5-6 mL tube of #450 broth. Additional test tubes can be inoculated by transferring 0.5 mL of the primary broth tube to these secondary broth tubes. Best practice dictates the use of pre-reduced media.
3. Use several drops of the primary broth tube to inoculate a #450 plate and/or #450 agar slant.
4. Incubate in an anaerobic atmosphere at 30°C for 7 days. Incubate one agar plate aerobically at 37°C to check for contamination.

### Anaerobic Conditions

Anaerobic conditions for transfer may be obtained by the use of an anaerobic gas chamber or placement of test tubes under a gassing cannula system connected to anaerobic gas.

Anaerobic conditions for incubation may be obtained by any of the following:
- Loose screw caps on test tubes in an anaerobic chamber
- Loose screw caps on test tubes in an activated anaerobic gas pack jar
- Use of sterile butyl rubber stoppers on test tubes so that an anaerobic gas headspace is retained

### 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.

Purified genomic DNA of this strain is available as ATCC® 25259D-5™.

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](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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