



Product Sheet

Desulfurella acetivorans (ATCC® 51451™)

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: *Desulfurella acetivorans* (ATCC® 51451™)

Description

Designation: DSM 5264 [A63]

Deposited Name: *Desulfurella acetivorans* Bonch-Osmolovskaya et al.

Propagation

Medium

ATCC® Medium 1920: *Desulfurella* medium (DSM 480)

Growth Conditions

Temperature: 55.0°C

Atmosphere: Anaerobic

Propagation Procedure

1. Open vial according to enclosed instructions.

2. Under anaerobic conditions, withdraw 0.5 ml of the recommended broth from a single test tube (5 to 6 ml) and rehydrate the vial contents.

3. Aseptically transfer this aliquot back into the broth. Additional tubes may be inoculated with 0.5 ml each from the suspension. 0.1 ml may also be inoculated onto a slant. Streak several blood plates to check for colonial morphology and purity.

4. Incubate tubes under an anaerobic atmosphere at 55°C. Incubate one agar plate anaerobically for colony formation, and one aerobically for aerobic contamination check.

5. Within 7 to 10 days, growth should be evident by turbidity in the broth. No growth should occur on agar plate incubated aerobically.

ANAEROBIC CONDITIONS:

Anaerobic conditions for transfer may be obtained by either of the following:

- Use of an anaerobic gas chamber, or
- Placement of test tubes under a gassing cannula system hooked to anaerobic gas.

Anaerobic conditions for incubation may be obtained by any of the following:

- Loose screw caps on test tubes in anaerobic chamber,
- Loose screw caps on test tubes in an activated anaerobic gas pack jar, or
- Use of sterile butyl rubber stoppers on test tubes so that an anaerobic gas headspace is retained.

Notes

Cells are Gram negative short rods, often in pairs and motile.

Reduces elemental sulfur with acetate as the sole source of energy and carbon. Does not ferment organic substrates, does not use electron acceptors other than sulfur. Growth products are H₂S and CO₂.

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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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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