**ATCC**

**Product Sheet**

**Desulfovibrio desulfuricans subsp. desulfuricans**
(ATCC® 27774™)

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**Please read this FIRST**

**Storage Temp.**
- Frozen: -80°C or colder
- Freeze-Dried: 2°C to 8°C

**Live Culture:** See Propagation Section

**Biosafety Level:** 1

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**Intended Use**

This product is intended for research use only. It is not intended for any animal or human therapeutic or diagnostic use.

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**Citation of Strain**

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: *Desulfovibrio desulfuricans subsp. desulfuricans* (ATCC® 27774™)

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**Description**

**Designation:** MB

**Deposited Name:** *Desulfovibrio desulfuricans* subsp. *desulfuricans* (Beijerinck) Kluyver and van Niel

**Product Description:** Produce restriction endonuclease DdsI and iron-sulfur protein. Capable of utilizing nitrate as well as sulfate during the anaerobic fermentation of lactate. Genome sequenced strain.

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**Propagation**

**Medium**
- ATCC® Medium 1249: Modified Baar's medium for sulfate reducers
- ATCC® Medium 260: Trypticase soy agar/broth with defibrinated sheep blood
- ATCC® Medium 2755: Desulfovibrio Medium

**Growth Conditions**
- **Temperature:** 37°C
- **Atmosphere:** Anaerobic gas mixture, 80% N₂-20% CO₂

**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 #1249 broth. Aseptically transfer the entire contents to a 5-6 mL tube of #1249 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 #260 plate and/or #260 agar slant.
4. Incubate in an anaerobic atmosphere at 37°C for 72 to 96 hours. Incubate one agar plate aerobically at 37°C to check for contamination.

**ANAEROBIC CONDITIONS:**
Aerobic 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.

Aerobic 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

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**Notes**

Always use freshly prepared anaerobic media.
- ATCC® Medium 2755: Desulfovibrio Medium may be substituted for #1249.
- Purified genomic DNA of this strain is available as ATCC® 27774D-5™.
- Additional information on this culture is available on the ATCC® web site at www.atcc.org.

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**References**

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

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**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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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.

Additional information on this culture is available on the ATCC web site at www.atcc.org.

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