ATCC

Product Sheet

Desulfovibrio salexigens (ATCC® 14944™)

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

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: *Desulfovibrio salexigens* (ATCC® 14944™)

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: NCIB 8365 [Louisiana 43.11]
Deposited Name: *Desulfovibrio salexigens* Postgate and Campbell

Propagation

Medium
ATCC® Medium 1250: Modified Barr's Medium for sulfate reducers with 2.5% NaCl

Growth Conditions
Temperature: 37°C with shaking
Atmosphere: Anaerobic gas mixture, 80% N_2-20% CO_2

Propagation Procedure

1. Open vial according to enclosed instructions.
2. Perform all steps under anaerobic conditions. (*see below*). Exchange the gas in the head space for a fresh anaerobic gas, either 80% N_2 20% CO_2 or 100% N_2. To insure that the media is anaerobic add 0.1 mL 1.5% sodium sulfide (stock concentration) for each 5 to 10 mL of medium.
3. Using an anaerobic 1 mL syringe (see below) aseptically transfer 0.5 mL of ATCC Medium #1250 to the vial and rehydrate the entire freeze-dried pellet. Transfer the entire suspension back into the primary tube. The primary tube should not contain more than 8 to 10 mL of #1250 broth. Secondary tube(s) can be inoculated with 0.5 mL of the primary broth. Inoculate a plate of non-selective medium with 0.1 of the culture.
4. Incubate the tubes anaerobically at 37°C with gentle shaking. Incubate the plate(s) aerobically as a purity check.
5. After two or three days, growth should be evident as indicated by turbidity throughout the broth. Once growth has been established, the culture should be transferred to fresh broth every 24 to 48 hours.
6. This culture is sensitive to oxygen, therefore steps should be taken to avoid exposure to oxygen. When the culture exhibits good growth it will remain viable for up to 1 week if stored at 4°C under anaerobic condition.

ANAEROBIC CONDITIONS:

A. Balch tubes (available from Bellco Glass, Vineland, NJ; are specially designed for anaerobic work and use an aluminum crimp cap to hold a rubber stopper in place. Needles can easily be inserted through the stopper. Alternatively, serum vials may be used, or screw cap tubes with butyl rubber stoppers, in the latter case the stopper may be removed and the tube placed under a cannula system that dispenses sterile, oxygen free gas for the addition of reducing agents or inoculation.
B. To obtain a fully reduced medium, it is necessary that the medium be anoxic and that a reducing agent be added. Common reducing agents are sodium sulfide, cysteine, dithiothreitol, titanium citrate and Co-enzyme M (see D). If component IV is added to the medium sodium sulfide, dithiothreitol and titanium citrate will cause the ferrous ammonium sulfate to precipitate even without growth.
C. We suggest adding the reducing agent to the medium at least one hour before the medium is to be inoculated.
D. Syringes can be made anaerobic by one of two methods.
    1. Displace the dead space in the syringe with a sterile oxygen-free gas.
    2. Displace the dead space in the syringe with a reducing agent.

Notes

Growth should be detected within 24 to 48 hours as indicated by turbidity throughout the broth. Turbidity may not be evident at 24 hours in the secondary growth tubes, but viable cells can be observed microscopically. The cells typically appear as comma-shaped rods that are motile.
Once growth has been established the culture should be transferred every 24 hours when maintained at 37°C. The culture can be maintained at 4°C for up to 1 week.
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

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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.

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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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