ATCC

Product Sheet

Desulfovibrio vulgaris subsp. vulgaris (ATCC® 29579™)

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 vulgaris subsp. vulgaris* (ATCC® 29579™)

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 8303 [DSM 644, Hildenborough]
Deposited Name: *Desulfovibrio vulgaris* subsp. *vulgaris* Postgate and Campbell
Product Description: Type strain. Genome sequencing strain. Bacteriophage induction. Reduction of tetravalent uranium.

Propagation

Medium
ATCC® Medium 1249: Modified Baar's medium for sulfate reducers

Growth Conditions
Temperature: 30°C
Atmosphere: Anaerobic gas mixture, 80% N_2-10% CO_2-10% H_2

Propagation Procedure

1. If the medium is not freshly prepared (less that 1 week), then it is a good idea to replace the head space with a fresh anaerobic gas such as 100% N_2. A reducing agent should then be added to insure that anaerobic conditions are obtained. It is suggested that a 3% stock solution of cysteine be added, 0.1 mL. for each 5-10 mL, to each tube(s) of medium. Once that reducing agent has been added, let the tube(s) sit for a minimum of 1 hour before inoculation.
2. Open vial according to enclosed instructions.
3. Perform all steps under anaerobic conditions. (*see below*)
4. Aseptically transfer 0.5 mL of Medium #1249 to the vial and rehydrate the entire freeze-dried pellet. Transfer the suspension back into the tube of broth. Inoculate a plate of non-selective medium with 0.1 of the culture.
5. Seal the test tube with a rubber stopper and incubate anaerobically at 30°C. Incubate the plate(s) aerobically as a purity check.
6. After two or three days, growth should be evident as indicated by turbidity through out the broth. Once growth has been established, the culture should be transferred to fresh broth every 24 to 48 hours.
7. This culture is very 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 conditions.

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

- Use of an anaerobic gas chamber.
- 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.
- Use of sterile butyl rubber stoppers on test tubes so that an anaerobic gas headspace is retained.

Notes

Anaerobe Systems PRAS Brucella Blood Plates (AS-111 or AS-141) can be used to analyze colony morphology and purity.
A black precipitate may be observed because of the breakdown of ferrous ammonium sulfate. Ferrous ammonium sulfate is not required for this organism to grow.
Always use freshly prepared pre-reduced media or pre-reduced media that has been previously prepared but stored under anaerobic conditions. Resazurin in the media is a color indicator for anaerobic conditions. Observance of pink color in medium before use or during incubation shows anaerobic conditions have not been met and oxidation has occurred. Medium should be discarded.
Purified genomic DNA of this strain is available as ATCC® 29579D-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.

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

ATCC® products are warranted for 30 days from the date of shipment, and this warranty is valid only if the product is stored and handled according to the information included on this product information sheet. If the ATCC® product is a living cell or microorganism, ATCC lists the media formulation that has been found to be effective for this product. 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 product. 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.
While ATCC uses reasonable efforts to include accurate and up-to-date information on this product sheet, ATCC makes no warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. ATCC does not warrant that such information has been confirmed to be accurate.
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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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