Desulfovibrio vulgaris subsp. *vulgaris* Postgate and Campbell

29579™

Description

Desulfovibrio vulgaris subsp. *vulgaris* was isolated from Wealden clay in England. This whole-genome sequenced bacterial type strain can be used in biotechnology.
Strain designation: NCIB 8303 [DSM 644, Hildenborough]
Deposited As: *Desulfovibrio vulgaris* subsp. *vulgaris* Postgate and Campbell
Type strain: Yes

Storage Conditions

Product format: Freeze-dried
Storage conditions: 2°C to 8°C

Intended Use

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

BSL 1

ATCC determines the biosafety level of a material based on our risk assessment as guided by the current edition of *Biosafety in Microbiological and Biomedical Laboratories (BMBL)*, U.S. Department of Health and Human Services. It is your responsibility to understand the hazards associated with the material per your organization's policies and procedures as well as any other applicable regulations as enforced by your local

or national agencies.

ATCC highly recommends that appropriate personal protective equipment is always used when handling vials. For cultures that require storage in liquid nitrogen, it is important to note that some vials may leak when submersed in liquid nitrogen and will slowly fill with liquid nitrogen. Upon thawing, the conversion of the liquid nitrogen back to its gas phase may result in the vial exploding or blowing off its cap with dangerous force creating flying debris. Unless necessary, ATCC recommends that these cultures be stored in the vapor phase of liquid nitrogen rather than submersed in liquid nitrogen.

Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at www.atcc.org.

Growth Conditions

Medium:
ATCC Medium 1249: Modified Baar's medium for sulfate reducers
Temperature: 30°C
Atmosphere: Anaerobic

Handling Procedures

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

Use of a shaking incubator improves growth.

Anaerobe Systems PRAS Brucella Blood Plates (AS-111 or AS-141) can be used to analyze colony morphology and purity.

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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.

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Desulfovibrio vulgaris* subsp. *vulgaris* Postgate and Campbell (ATCC 29579)

References

References and other information relating to this material are available at www.atcc.org.

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Revision

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