



***Desulfovibrio desulfuricans* subsp. *aestuarii* Postgate and Campbell**

17990™

Description

Strain designation: PL

Deposited As: *Desulfovibrio desulfuricans* subsp. *aestuarii* Postgate and Campbell

Type strain: No

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

Temperature: 30°C

Atmosphere: 100% N₂

Handling Procedures

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 #1250 broth. Aseptically transfer the entire contents to a 5-6 mL tube of #1250 broth. Additional test tubes can be inoculated by

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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 plate of non-selective medium with 0.1 of the culture to check for culture purity.
4. Seal the test tube with a rubber stopper and incubate in an anaerobic atmosphere at 30°C.
5. After two or three days, growth should be evident as indicated by turbidity through out the broth and the formation of a black precipitant. Once growth has been established, the culture should be transferred to fresh broth every 24 to 48 hours.
6. 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 the use of an anaerobic gas chamber or placement of test tubes under a gassing cannula system connected to anaerobic gas.

Anaerobic 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

Notes

Growth should be detected within 24 hours as indicated by turbidity throughout the broth.

The cells typically appear as comma-shaped rods that are motile.

Once growth has been establish the culture should be transferred every 24 hours when maintained at 30°C. The culture can be maintained at 4°C for up to 1 week.

Always use freshly prepared pre-reduced media or pre-reduced media that has been previously prepared but stored under anaerobic conditions.

Additional information on this culture is available on the ATCC® web site at

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www.atcc.org.

Product Sheet

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Desulfovibrio desulfuricans* subsp. *aestuarii* Postgate and Campbell (ATCC 17990)

References

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

Warranty

The product is provided 'AS IS' and the viability of ATCC® products is warranted for 30 days from the date of shipment, provided that the customer has stored and handled the product according to the information included on the product information sheet, website, and Certificate of Analysis. For living cultures, ATCC lists the media formulation and reagents that have been found to be effective for the product. While other unspecified media and reagents may also produce satisfactory results, a change in the ATCC and/or depositor-recommended protocols may affect the recovery, growth, and/or function of the product. If an alternative medium formulation or reagent is used, the ATCC warranty for viability is no longer valid. Except as expressly set forth herein, no other warranties of any kind are provided, express or implied, including, but not limited to, any implied warranties of merchantability, fitness for a particular purpose, manufacture according to cGMP standards, typicality, safety, accuracy, and/or noninfringement.

Disclaimers

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Product Sheet

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Revision

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