ATCC

Product Sheet

Desulfosporosinus orientis (ATCC® 23598™)

Please read this FIRST

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: *Desulfosporosinus orientis* (ATCC® 23598™)

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 8445 [Singapore II, Ulu]
Deposited Name: *Desulfovibrio orientis* Adams and Postgate

Propagation

Medium
ATCC® Medium 1249: Modified Baar's medium for sulfate reducers
ATCC® Medium 1249: Modified Baar's medium for sulfate reducers
ATCC® Medium 207: Modified Starkey's medium C

Growth Conditions
Temperature: 30.0°C
Atmosphere: Anaerobic

Propagation Procedure
1. Open vial according to enclosed instructions.
2. Perform all steps under anaerobic conditions. (*see below*)
3. Aseptically transfer 0.5 ml of ATCC Medium #1249 to the vial and rehydrate the 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.
4. Seal the test tube with a rubber stopper and incubate anaerobically at 30ºC. Incubate the plate(s) aerobically as a purity check.
5. Within 24 to 48 hours, growth should be evident by moderate to good turbidity in the broth, with sediment in the bottom of the tube. No growth should occur on the blood agar plate incubated aerobically. Once growth is achieved, transfer the culture to fresh #1249 broth. This culture does not grow well on agar.
ANAEROBIC CONDITIONS:
· **Tubes of media are placed under a gassing cannula system hooked to a source of oxygen free gas.**
· All transfers are performed while the test tubes are on the cannula system with a gentle stream of oxygen-free gas flowing through the system.
· As the test tubes are removed from the cannula system, each is sealed with butyl rubber stopper, thus maintaining the anaerobic headspace.

Notes

Always use freshly prepared anaerobic media.

The best results have been obtained using the gassing cannula system. Using an anaerobic jar after rehydration of the freeze-dried pellet is not recommended. Once the culture has been established, using an anaerobic jar will work if the inoculum is 20% or greater.

Either 100% N_2 or 80% N_2-10% CO_2-10% H_2 can be used as the anaerobic gas for culturing this organism.

Once growth has been obtained this culture is fairly easy to maintain by transferring every other day. A culture that has good growth and is fresh can be maintained at 4ºC for up to a week. The cells can be stored at 70 to 80ºC by growing a large volume in #1249 broth, harvesting the cells and then mixing the cell pellet in an equal volume of fresh #1249 and 20% glycerol (10% final concentration). Distribute the cells into vials (approximately 0.5 to 1.0 ml per vial) and freeze rapidly. Both the #1249 broth and glycerol need to be pre-reduced. This may be accomplished by adding 0.1 ml (for each 5 to 6 ml medium) of a 1.5% sodium sulfide solution.

Cells appear as rods in singles and pairs with pointed ends. The cells are motile and produce spores.

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

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.

Product Sheet

Desulfosporosinus orientis (ATCC® 23598™)

Please read this FIRST

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: *Desulfosporosinus orientis* (ATCC® 23598™)

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.

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.

This product is sent with the condition that you are responsible for its safe storage, handling, and use. ATCC is not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to insure authenticity and reliability of strains on deposit, ATCC is not liable for damages arising from the misidentification or misrepresentation of cultures.

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.

© ATCC 2013. All rights reserved. ATCC is a registered trademark of the American Type Culture Collection. [02/03]

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