



Product Sheet

Desulfotignum toluenicum (ATCC® BAA-1460™)

Please read this FIRST



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: *Desulfotignum toluenicum* (ATCC® BAA-1460™)

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: H3 [DSM 18732]

Propagation

Medium

ATCC® Medium 2679:

Growth Conditions

Temperature: 30.0°C

Atmosphere: Anaerobic

Propagation Procedure

1. Sterilize the top of the #2679 broth tube by spraying it with 70% ethanol and then flaming the top.
2. If needed, exchange the gas in the media test tube for 80% N₂ - 20% CO₂ or 100% N₂.
3. If the medium is pink indicating non-reducing conditions add 0.2 ml Co-enzyme M (5% stock solution) per 10 ml of medium. Let the medium sit at room temperature for 30 to 40 minutes until the resazurin becomes colorless before inoculating.
4. When the medium is ready to inoculate, open the vial as described in the instructions.
5. For inoculation, use an anaerobic (see c below) 1.0 ml syringe tipped with 22-gauge needle, withdraw 0.5 ml of medium #2679 with which to rehydrate the entire cell pellet (perform this rehydration by holding the vial under a cannula while the medium is being added). The cannula should have a gentle stream of oxygen free gas flowing through it. When the pellet has dissolved draw it into the 1 ml syringe and inoculate the broth tube. Transfer 0.5 ml of the inoculated culture to a second anaerobic tube of #2679. Plate 0.1 ml of the inoculated culture onto a non-selective medium and incubate aerobically at 30°C. Use 0.1 ml of the inoculated culture to inoculate a nonselective aerobic broth and plate. Incubate at 30°C.
6. Growth should be detected in the modified #2679 broth within 4 to 7 days. There should be no growth detected on the aerobic plate or in the aerobic broth.

ANAEROBIC CONDITIONS:

- a. Resazurin is a commonly used redox indicator that is pink when the redox potential is above 50 mv., and colorless when the redox potential is below 110 mv. i.e. highly reducing. Most strict anaerobes require this low redox potential for optimum growth.
- 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, and titanium citrate.

Notes

Cells are rods with rounded ends, generally singular.

DESCRIPTION: BAA-1460

1000X:

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.

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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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