Desulfotignum toluenicum

BAA-1460™

Description

Strain designation: H3 [DSM 18732]
Type strain: Yes

Storage Conditions

Product format: Freeze-dried

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 2679:
Temperature: 30°C
Atmosphere: Anaerobic

Handling Procedures

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% N_2 - 20% CO_2 or 100% N_2.

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 30ºC. Use 0.1 ml of the inoculated culture to inoculate a nonselective aerobic broth and plate. Incubate at 30ºC.

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.

1000X:

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: *Desulfotignum toluenicum* (ATCC BAA-1460)

References

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

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Revision

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