Geobacter thiogenes (De Wever et al.) Nevin et al.

BAA-34™

Description

Strain designation: K1
Deposited As: *Trichlorobacter thiogenes* De Wever et al.
Type strain: Yes

Storage Conditions

Product format: Frozen
Storage conditions: -80°C or colder

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 2635: *Desulfuromonas michiganensis* Medium
Temperature: 26°C
Atmosphere: 80% N_2, 20% CO_2

Handling Procedures

1. Sterilize the top of the Balch tube by spraying it with 70% ethanol and then flame the top.
2. If needed exchange the gas in the test tube for 80% N_2-20% CO_2.
3. When the Balch tube is ready to inoculate, thaw the frozen vial at room temperature under a gentle stream of oxygen-free gas.
4. For inoculation, use an anaerobic (see "c" below) 1.0 ml syringe tipped with 22-

gauge needle, withdraw the cell suspension from the vial and transfer it to the broth. Plate 0.1 ml of the inoculated culture onto a non-selective medium and incubate aerobically at 26ºC. Use 0.1 ml of the inoculated culture to inoculate a nonselective aerobic broth and an additional tube of #2635 broth. Incubate the non-selective aerobic broth tubes at 26ºC. Incubate the anaerobic tube at 26º C.

5. Growth should be detected in the #2635 broth within 7 to 10 days. There should be no growth detected on the aerobic plate or in the aerobic broth.

Notes

Cells are Gram-negative non-motile curved rods. Cell growth will be inhibited if the concentration of acetate and fumarate are increased above the noted level in the medium. Also, note that ATCC#2635 broth contains PCE but BAA-34 does not utilize this compound so it has been removed. TCA can be substituted or added in addition to fumarate.

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: *Geobacter thiogenes* (De Wever et al.) Nevin et al. (ATCC BAA-34)

References

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

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