



Product Sheet

Thermoanaerobacter sp. (ATCC® BAA-938™)

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: *Thermoanaerobacter sp.* (ATCC® BAA-938™)

Description

Designation: X514

Deposited Name: *Thermoanaerobacter sp.*

Propagation

Medium

ATCC® Medium 2473: *Thermoanaerobacter* medium

Growth Conditions

Temperature: 55.0°C

Atmosphere: anaerobic

Propagation Procedure

2. If needed, exchange the gas in the test tube for 80% N₂ 20% CO₂.
3. If the medium is pink (see discussion about resazurin) 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 Balch tube is ready to inoculate, open the vial according to enclosed instructions. Using an anaerobic syringe (see c. below) remove 0.5 ml of the anaerobic broth. Remove the cotton plug from the vial. As you are adding the anaerobic broth to the vials place the vial under a gentle stream of oxygen-free gas. Transfer the entire rehydrated pellet back into the anaerobic tube of medium.
6. Growth should be detected in the #2473 broth within 48 to 72 hours. 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 Co-enzyme M, sodium sulfide, cysteine, dithiothreitol, and titanium citrate.
- c. Syringes can be made anaerobic by one of two methods. 1. Displace the dead space in the syringe with a sterile

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.

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