



Thiothrix fructosivorans Howarth et al.

49748™

Description

Strain designation: Q

Deposited As: *Thiothrix* sp.

Type strain: Yes

Storage Conditions

Product format: Frozen

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 1820: LTH medium for *Thiothrix*

Temperature: 10°C**Atmosphere:** Aerobic

Handling Procedures

1. From a sterile stock supply of ATCC #1820 broth, aseptically transfer 10 ml to a sterile 125 ml flask.
2. Open the frozen vial and aseptically transfer the contents into the 125 ml flask.
3. Incubate flask at 10°C for 4-6 days and double the volume with the addition of 10 ml of 1820 medium.

4. Once growth has been established transfer flask contents to 100 ml of #1820 broth contained in a 250 ml Erlenmeyer flask. Incubate flask without shaking at 10°C. Growth will be evident by the presence of a stringy flocculent which can take as little as 14 days or as long as 21 days to appear.

5. Transfer to fresh medium at 2 month intervals. A 5% inoculum (5ml of culture to 100 ml fresh medium) is recommended.

Notes

Growth on solid medium is sparse and can take 3 to 4 weeks. Colonies are white and rhizoid in appearance. Cells are long, thin, sheathed filaments entwined with one another and arranged in rosettes. Cells can be preserved by freezing with a cryoprotectant but viability is poor and recovery from frozen stock is very slow.

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: *Thiothrix fructosivorans* Howarth et al. (ATCC 49748)

References

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

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