



Thiorhodospira sibirica **Bryantseva et al.**

700588™

Description

Strain designation: A12

Deposited As: *Thiorhodospira sibirica* Bryantseva et al.

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 2116: Thiorhodospira sibirica medium

Temperature: 26°C**Atmosphere:** Anaerobic**Incubation:** Under light

Handling Procedures

1. Let the vial sit at room temperature until it thaws (*see note below*).
2. Using 1.0 ml pipette, aseptically transfer the thawed culture to a test tube containing #2113 broth. Fill the tube to capacity with broth (*see note below*).
3. Incubate tubes at room temperature under a tungsten lamp.

Notes

This is an anaerobic culture that can stand some exposure to oxygen. Do not allow the thawed cells to sit under aerobic conditions any longer than is needed.

Best results are obtained by starting with a small screw cap test tube (the smaller the volume the better). The culture is more likely to grow if the medium is pre-reduced prior to inoculating the cells into the broth. The medium can be reduced with the addition of cysteine (0.1ml per each 5ml of medium, stock concentration of 3%). If working with a 10 ml screw cap test tube add 6 ml of broth, 0.2 ml cysteine, the thawed cells, and then fill the test tube up to capacity with broth. Seal the test tube with a screw cap and incubate under a tungsten lamp.

The cells are thick vibroid or spiral-shaped rods that are very motile and have inclusions. The culture appears pink to a deep red depending on the cell density.

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: *Thiorhodospira sibirica* Bryantseva et al. (ATCC 700588)

References

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

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