



# ***Novispirillum itersonii* subsp. *itersonii* (Giesberger) Yoon et al.**

**12639™**

## **Description**

**Strain designation:** Giesberger [CIP 105798, NCIMB 9070, NRRL B-2053]

**Deposited As:** *Spirillum itersonii* Giesberger

**Type strain:** Yes

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## **Storage Conditions**

**Product format:** Frozen

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## **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.

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## **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.



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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.

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## **Certificate of Analysis**

For batch-specific test results, refer to the applicable certificate of analysis that can be found at [www.atcc.org](http://www.atcc.org).

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## **Growth Conditions**

### **Medium:**

ATCC Medium 3: Nutrient agar or nutrient broth

**Temperature:** 26°C

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## **Handling Procedures**

- 1. Open vial according to enclosed instructions.**
- 2. Using a single tube of #3 broth (5 to 6 ml), withdraw approximately 0.5 to 1.0 ml with a Pasteur or 1.0 ml pipette. Rehydrate pellet.**
- 3. Aseptically transfer this aliquot back into the broth tube. Mix well.**
- 4. Incubate at 26°C for 48 hours with shaking.**

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**5. After growth has been achieved, use several drops of the suspension to inoculate a second tube of broth, a slant, and/or plate.**

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### **Notes**

Culture grows better in broth with aeration. Cells are spiral shaped and highly motile.

This strain displays two colony types after 48 hours incubation: a) 75% circular, smooth, entire, convex, glistening, translucent; and b) 25% irregular, flat, rough, and transparent. Colony type b is a variant that has lost the ability to form helical cells (see Bergeys Manual of Systematic Bacteriology, Vol. 1, 1984, pg. 73). Biochemical characterization and the fatty acid profile are identical for both types.

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### **Material Citation**

If use of this material results in a scientific publication, please cite the material in the following manner: *Novispirillum itersonii* subsp. *itersonii* (Giesberger) Yoon et al. (ATCC 12639)

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### **References**

References and other information relating to this material are available at [www.atcc.org](http://www.atcc.org).

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