



Sphaerotilus sulfidivorans (Gridneva et al.) Grabovich et al.

13503™

Description

Sphaerotilus sulfidivorans strain 28 is a bacterium that was isolated from the Altamaha River in Georgia.

Strain designation: 28 [ATCC 13916]

Deposited As: *Sphaerotilus* sp.

Type strain: No

Storage Conditions

Product format: Freeze-dried

Storage conditions: 2°C to 8°C

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

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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 1103: *Sphaerotilus* CYGA medium

Temperature: 26°C

Atmosphere: Aerobic

Handling Procedures

1. Open vial.
2. Using a single tube of #1103 broth (5 to 6 ml), withdraw approximately 0.5 to 1.0 ml with a Pasteur or 1.0 ml pipette. Rehydrate the pellet.
3. Aseptically transfer this aliquot back into the broth tube. Mix well.

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4. Use several drops of the suspension to inoculate a second tube of broth, a slant, and/or plate. It is advisable to allow the broth to establish good growth before additional transfers are made.
 5. Growth is best achieved in broth tubes when they are placed on a shaker and incubated at room temperature. The broth will require 48 to 72 hours to grow. Additional incubation may be required for growth on solid medium.
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Notes

Colonies are opaque, off-white, spreading and rhizoid. They appear almost flat but increase in height and shininess as they age.

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Sphaerotilus sulfidivorans* (Gridneva et al.) Grabovich et al. (ATCC 13503)

References

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

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