



Sphaerochaeta globosa Ritalahti et al.

BAA-1886TM

Description

This bacterial type strain was isolated from the sediment of Red Cedar River in Michigan.

Strain designation: Buddy

Deposited As: *Sphaerochaeta globus*

Type strain: Yes

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 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.

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 2745: Half Tryptic Soy Broth Media for *Sphaerochaeta* spp.

Temperature: 30°C**Atmosphere:** 80% N₂, 20% CO₂; 100% N₂

Handling Procedures

1. Sterilize the top of the Balch tube by spraying it with 70% ethanol and then flaming the top.
2. If needed, exchange the gas in the test tube with the appropriate gas mixture.
3. Add 0.1 ml of reducing agent (3% cysteine, stock solution) per 10 ml of medium. Let the medium sit at room temperature for 30 minutes.

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4. Allow the frozen vial to thaw under anaerobic conditions. Once thawed, take a gassed 1.0 ml syringe tipped with 22-gauge needle and withdraw the entire contents of the thawed vial and immediately transfer it to a Balch tube.
5. Plate 0.1 ml on a non-selective medium to check for contamination.
6. Incubate tubes at 30°C and one plate under an anaerobic atmosphere at 30°C. Incubate non-selective plate aerobically at 37°C to check for purity.
7. In 7 to 10 days, growth should be evident by turbidity in the broth. No growth should occur on the non-selective plate incubated aerobically.

ANAEROBIC CONDITIONS:

- a. Balch tubes (available from Bellco Glass, Vineland, NJ) are specially designed for anaerobic work and use an aluminum crimp cap to hold a rubber stopper in place. Needles can easily be inserted through the stopper, and the tubes can be pressurized to 2 atm. Alternatively, serum vials may be used, or screw cap tubes with butyl rubber stoppers, in the latter case the stopper may be removed and the tube placed under a cannula system that dispenses sterile, oxygen free gas for addition of reducing agents or inoculation.
- 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 sodium sulfide, cysteine, dithiothreitol, and titanium citrate.

Notes

No aerobic growth should occur. The cell has an appearance of being unhealthy, but in fact this is a vital cell. The cells are pleiomorphic with an appearance of irregular cocci to ovoid cell shape. The cells are non-motile.

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: *Sphaerochaeta globosa* Ritalahti et al. (ATCC BAA-1886)

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References

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

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Revision

This information on this document was last updated on 2025-10-01

Contact Information

ATCC

10801 University Boulevard



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Manassas, VA 20110-2209

USA

US telephone: 800-638-6597

Worldwide telephone: +1-703-365-2700

Email: tech@atcc.org or contact your local distributor
