



Bdellovibrio bacteriovorus **Stolp and Starr**

15143™

Description

Strain designation: 109

Deposited As: *Bdellovibrio bacteriovorus* Stolp and Starr

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 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 1603: DNB medium

Temperature: 30°C**Atmosphere:** Aerobic

Handling Procedures

1. Open vial according to the enclosed instructions.
2. Using a glass vessel containing 50 ml of the recommended broth, withdraw 0.5 to 1.0 ml and rehydrate the pellet.
3. Incubate the tube at 30°C, and incubate the glass vessel on a reciprocal shaker at the same

temperature.

4. After 24 hours, transfer 1 mL of the culture into a fresh tube of broth. This tube will be held in the refrigerator to be used as a host stock, if needed. It will also contain the *Bdellovibrio*, but often a more concentrated suspension of the host is needed for infection.

A pure culture of the host strain, ATCC 15144 *Escherichia coli*, is available and may also be used instead of trying to propagate the host as a mixed culture.

5. After several days, examine a wet mount preparation of the glass vessel culture to check for free swimming *Bdellovibrio* cells. They will be observed as very tiny, actively motile, curved rods.

Notes

A glass vessel must be used for propagation, not a plastic vessel.

Observe the flask culture microscopically daily until the *Bdellovibrio* are observed. A decrease in turbidity should also be noted indicating lysis of the host cells. This may take 3-4 weeks for the host to be fully lysed.

To further propagate the strain, use the tube of the host set aside for this purpose. It should be transferred and used as a 24 hour culture.

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: *Bdellovibrio bacteriovorus* Stolp and Starr (ATCC 15143)

References

References and other information relating to this material are available at

www.atcc.org.

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