Peredibacter starrii (Seidler et al.) Davidov and Jurkevitch

15145™

Description

Strain designation: A3.12 [ICPB 3279]
Deposited As: *Bdellovibrio bacteriovorus* Stolp and Starr
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 137: Tris-YP medium
Temperature: 30°C
Atmosphere: Aerobic
Incubation: Grown with Pseudomonas putida ATCC® 12633™

Handling Procedures

1. Open vial according to enclosed instructions.
2. Using a tube with approximately 2.0 mL of ATCC Medium #137, withdraw 0.5 mL and rehydrate the entire pellet.
3. Transfer the suspension back into the tube and mix well.
4. Incubate the tube on a reciprocal shaker at 30°C for 6 hours.

5. After culture has incubated, melt tubes containing 2.5 mL each of 0.6% semi-solid agar, and place in a 45°C water bath.
6. Add 0.2 to 0.3 mL of the host/predator suspension to each melted tube and pour over the surface of pre-warmed #137 plates.
7. Incubate plates at 30°C for three to six days. After this time, plaques should be visible. Observe daily until plaques or clearing are seen. When a small loopful is observed microscopically under wet mount, you should observe free-swimming *Bacteriovorax* cells, host cells, and host cells with attached *Bacteriovorax*.
8. Scrape off overlay into a sterile testtube and centrifuge at low speed to sediment the agar and cellular debris. The *Bacteriovorax* cells will be in the supernatent. Check for very tiny, rapidly moving cells under a wet mount.

Notes

Inoculating a Nutrient Agar slant with some of the mixed culture for subsequent overnight incubation will allow the *Pseudomonas* sp. to propagate for use in further inoculations. It should be used as a 24 hour culture.

A pure culture of the host strain ATCC® 12633™ *Pseudomonas putida* is also available and may also be used instead of trying to propagate the host from the mixed 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: *Peredibacter starrii* (Seidler et al.) Davidov and Jurkevitch (ATCC 15145)

References

References and other information relating to this material are available at

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