Cereibacter sphaeroides (van Niel) Hördt et al.

17023™

Description

Cereibacter sphaeroides strain ATH 2.4.1 is a whole-genome sequenced bacterial type strain that has applications in biotechnology.

Strain designation: ATH 2.4.1 [ATCC 11167, ATCC 14690, NCIB 8253, NCIB 8287]
Deposited As: *Rhodopseudomonas spheroides* van Niel
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.

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 0550: R 8 A H medium
ATCC Medium 3: Nutrient agar or nutrient broth
Temperature: 30°C
Atmosphere: Aerobic in the dark; Anaerobic under a tungsten lamp
Incubation: Under a tungsten lamp

Handling Procedures

1. Put 6 to 8 mL of ATCC Medium #550 into a 13x100 mm screw cap test tube (small). Add cysteine (3.0% stock concentration, 2 mL/100 mL medium) and then fill the test tube to capacity with ATCC broth Medium #550. Seal the test

tube with a screw cap.
2. Let the tube sit at room temperature for 30 minutes before inoculating it with the rehydrated culture.
3. Open the freeze-dried vial according to enclosed instructions.
4. Aseptically take 0.25 mL of the pre-reduced medium and rehydrate the pellet.
5. Transfer the rehydrated pellet back into the screw cap test tube and close tightly. One or two drops can be streaked out onto nutrient plates (ATCC Medium #3).
6. Incubate the broth culture at 30°C under a tungsten lamp. The nutrient agar plate cultures should be incubated aerobically in the dark.
7. Growth should be established in three to six days. The culture should then be transferred to fresh broth. If a large inoculum is used the medium does not need to be pre-reduced.

Notes

Phototrophic growth is obtained by incubating the culture under anaerobic conditions under a tungsten lamp.
This culture is able to grow aerobically on agar (Nutrient) in the dark.
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: *Cereibacter sphaeroides* (van Niel) Hördt et al. (ATCC 17023)

References

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

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