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Description

Photobacterium phosphoreum strain [NCMB 1282] is a psychrophilic luminous bacterium. This whole-genome sequenced bacterial type strain is temperature sensitive.

Strain designation: [NCMB 1282]

Deposited As: *Bacterium phosphoreum* (Cohn) Molisch

Type strain: Yes

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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.

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BSL 1

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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 0101: Photobacterium Broth

Temperature: 18°C

Atmosphere: Aerobic

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Incubation: Note: Rehydrate with pre-chilled medium and incubate immediately at 15-20C.

Handling Procedures

1. Open vial.
 2. Rehydrate the entire pellet with approximately 0.5 mL of # 101 broth. Aseptically transfer the entire contents to a 5-6 mL tube of # 101 broth. Additional test tubes can be inoculated by transferring 0.5 mL of the primary broth tube to these secondary tubes.
 3. Use several drops of the primary broth tube to inoculate a # 101 plate and/or #101 agar slant.
 4. Incubate at 15°C for 3-5 days.
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Notes

This strain is temperature sensitive. You must use chilled media for rehydration, or the cells may be damaged. Pre-chill all media prior to inoculation. Keep media on ice throughout the inoculation process. Temperatures of 20°C or above should be avoided. Store or transfer immediately. Do not let them stand at room temperature.

This strain will grow on Marine Broth 2216 (BD 279110) and Marine Agar 2216 (BD 212185), but Photobacterium Medium is recommended for demonstrating luminescence. To check for luminescence, inoculate a slant, leaving cap loose. Incubate at optimal temperature until growth is observed. Then, hold in the dark for 10 minutes. If no luminescence is detected, reincubate and check again after 24-48 additional hours. When maximum luminescence is obtained, stopper tightly.

This strain needs to establish good growth in broth culture before additional transfers are made.

Material Citation

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If use of this material results in a scientific publication, please cite the material in the following manner: 11040 (ATCC 11040)

References

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

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