Aliivibrio fischeri (Beijerinck) Urbanczyk et al.

7744™

Description

Aliivibrio fischeri strain [NCMB 1281] is a whole-genome sequenced bacterial type strain. Photobacterium medium is recommended for demonstrating luminescence.

Strain designation: [NCMB 1281]
Deposited As: *Achromobacter fischeri* (Beijerinck) Bergey et al.
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 0101: Photobacterium Broth
Temperature: 26°C
Atmosphere: Aerobic

Handling Procedures

1. Open vial according to enclosed instructions or visit www.atcc.org for instructions.
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 26°C for 24-72 hours.

Notes

Vibrio fischeri (Beijerinck 1889) Lehmann and Neumann 1896 (Approved Lists 1980) and *Photobacterium fischeri* (Beijerinck 1889) Reichelt and Baumann 1973 (Approved Lists 1980) have the same type strain and therefore are homotypic synonyms (Rules 24a and 24b of the International Code of Nomenclature of Bacteria and Viruses).

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 26°C for 18 hours. Then, hold in the dark for 10 minutes. If no luminescence is detected, reincubate and check again after 36, 48, and 72 hours. When maximum luminescence is obtained, stopper tightly.

This strain needs to establish good growth in broth culture before additional transfers are made. Additional incubation may be required for growth on solid media.

ATCC Medium #101 Photobacterium agar is recommended for demonstrating bioluminescence. For the strongest growth of individual colonies, ATCC Medium #2 Marine agar or ATCC MEdim #260 sheep blood agar are recommended as alternatives.

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: *Aliivibrio fischeri* (Beijerinck) Urbanczyk et al. (ATCC 7744)

References

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

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