



Aliivibrio fischeri (Beijerinck) Urbanczyk et al.

49387-MINI-PACK™

Description

ATCC® 49387-MINI-PACK™ consists of 6 ready-to-use vials of ATCC® 49387™ frozen in 200 µL of glycerol stock, eliminating the need to rehydrate and culture the strain prior to use. Each vial is provided with a 2-D barcode for easy storage and tracking, as well as peel-off labels for fast and reliable recordkeeping.

Strain designation: NRRL B-11177

Deposited As: *Photobacterium phosphoreum* (Cohn) Beijerinck

Type strain: No

Shipping information: 6 ready-to-use vials containing the strain in glycerol stock

Storage Conditions

Product format: Frozen

Storage conditions: -80°C or colder

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: 15°C

Atmosphere: Aerobic

Handling Procedures

Frozen mini-cryovials packed in dry ice should either be thawed immediately for use or stored at or below -70°C until the expiration date printed on the label. Storage at -20°C may affect the growth and viability of the culture.

1. Thaw the bacterial strain upright using gentle agitation in a 25°C to 30°C water bath. Thawing will be rapid; approximately 2-3 minutes or until all ice crystals have melted.
2. Immediately after thawing, wipe down the mini-cryovial with 70% ethanol and aseptically transfer the entire contents to a 5-6 mL tube of #101 broth.
3. Incubate the broth at 15-18°C for 4-5 days. This strain needs to establish good growth in broth culture before additional transfers are made.
4. After growth has been achieved, transfer can be made to secondary tubes of broth, slants, and plates. Additional incubation may be required for growth on solid media.
5. Discard the empty vial. Do not refreeze any unused portion as it will result in a loss of viability.

Notes

This strain may be temperature sensitive. You should use chilled media for rehydration or the cells may be damaged. Place tubes at the proper temperature immediately. Temperatures above 20°C 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.

Additional information on this culture is available on the ATC[®]C 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 49387-MINI-PACK)

References

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

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