Psychromonas kaikoae Nogi et al.

BAA-353™

Description

Psychromonas kaikoae strain JCM 11054 is an obligate piezophile and psychrophile that was isolated from the bottom of the Marianus Trench in the Pacific Ocean using a robotic deep sea submersible.

Strain designation: JCM 11054 [JT7304]
Deposited As: *Psychromonas kaikoi*
Type strain: Yes

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 2: Marine agar 2216 or marine broth 2216
Temperature: 10°C
Atmosphere: 50 MPa

Handling Procedures

This organism is an obligate barophile and psychrotroph. Its maximal growth temperature is 15°C. Its minimal growth requirements are 4°C and 5 MPa (=50 bar =725 psi) of pressure. It grows optimally at 10°C and 50 MPa. It is an obligate aerobe. It will survive for only a limited time, 2-3 hrs., on ice at normal atmospheric pressure.

This organism should only be grown by people experienced with working with high-pressure apparatus.

Notes

ATCC BAA-353 was isolated from the bottom of the Marianus Trench in the Pacific Ocean using a robotic deep sea submersible.

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: *Psychromonas kaikoae* Nogi et al. (ATCC BAA-353)

References

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

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