49840

49840™

Description

Marinobacter nauticus strain SP.17 is a bacterial strain that was isolated from polluted seawater and sediments near a petroleum refinery in Gulf of Fos, Mediterranean coast, France. This strain has applications in the degradation of eicosane and hydrocarbons.

Strain designation: SP.17
Deposited As: *Marinobacter hydrocarbonoclasticus* Gauthier et al.
Type strain: No

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: 30°C
Atmosphere: Aerobic

Handling Procedures

1. Open thawed vial.
2. Aseptically transfer the entire contents to a 5-6 mL tube of #2 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 #2 plate and/or #2 agar slant.
4. Incubate at 30°C for 48 to 72 hours.

Notes

Two colony types are observed on #2 plates at 48 hours.
When cultivated in SM nitrate and SM nitrite medium, *M. hydrocarbonoclasticus* is able to reduce nitrate and nitrite.
Denitrification was not detected using different sources of nitrate media.
This strain is cited to degrade hydrocarbons and eicosane (Fernandez-Linares *et al.* Syst Appl Microbiol 19: 113-121, 1996; Gauthier *et al.* Int J Syst Bacteriol 42: 568-576, 1992).
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: 49840 (ATCC 49840)

References

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

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Revision

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