Haloarcula quadrata Oren et al.

700850™

Description

Strain designation: DSM 11927 [801030/1]
Deposited As: *Haloarcula quadrata* Oren et al.
Type strain: Yes

Storage Conditions

Product format: Freeze-dried

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 2164: Haloarcula quadrata medium
Temperature: 37°C
Atmosphere: Aerobic

Handling Procedures

1. Open the vial according to enclosed instructions.

2. From a single tube of #2164 broth (5 to 6 ml), withdraw approximately 0.5 to 1 ml with a Pasteur or 1.0 ml pipette. Rehydrate the pellet.

3. Aseptically transfer this aliquot back into the broth tube. Mix well.

4. Use several drops of the suspension to inoculate a #2164 agar slant and/or plate.

Incubate all broth tubes shaken at 37°C for 4-7 days. Incubate all slant and plates at 37°C for 4-7 days.

Notes

Growth is evident by turbidity (red in color) in the broth. When examined microscopically, the cells appear predominantly square-shaped, pleomorphic, flat cells that are motile. Colonies are small, smooth, entire, and red-orange. This organism stains Gram negative. According to Reference #1, the optimal temperature for growth is 53°C with no growth observed above 55°C. We have found that growth is just as good at 37°C and decreases the evaporation caused by high salt concentration.

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Haloarcula quadrata* Oren et al. (ATCC 700850)

References

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

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Revision

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