43812

43812™

Description

Strain designation: R-10 [DSM 4252]
Deposited As: *Rhodothermus marinus* Alfredsson 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 1599: Thermus enhanced medium (ATCC medium 1598) with 1% NaCl
Temperature: 70°C

Handling Procedures

1. Open vial according to enclosed instructions.

2. Using a single tube of #1599 broth (5 to 6 ml), withdraw approximately 0.5 to 1.0 ml with a Pasteur or 1.0 ml pipette. Rehydrate the entire pellet.

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

4. Use several drops of the suspension to inoculate a #1599 agar slant and/or plate.

5. Incubate the tubes and plate at 70°C for 3-5 days.

6. Once growth is obtained in the broth tubes, plates can be inoculated with

approximately 0.1 ml per plate. Better growth is achieved on plates when incubated at 60ºC rather than 70ºC. Plates should be incubated in a jar or plastic bag with a moist cloth or paper towel to prevent plates from drying out.

Notes

Growth should be visible in broth within 3 to 5 days. At 1000X magnification, cells appear as long straight rods with curved ends. Heavy growth in broth gives a pink pigment. Colonies are reddish colored, low convex, with entire edges. The cells are Gram negative.

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: 43812 (ATCC 43812)

References

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

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Revision

This information on this document was last updated on 2021-05-19

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