



***Aquifex pyrophilus* Huber et al.**

51433™

Product Sheet

Description

Strain designation: DSM 6858

Deposited As: *Aquifex pyrophilus* Huber et al.

Type strain: No

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.

Handling Procedures

1. Sterilize the top of the serum bottle by spraying it with 70% ethanol and then flame the top.

2. When the bottle is ready to inoculate, open the vial according to enclosed instructions.

3. For inoculation, use a 1.0 ml syringe tipped with 22 gauge needle. Withdraw 0.5 ml of 2186 and use this to rehydrate the freeze-dried pellet. Transfer the rehydrated cell into the 2186 broth; from this bottle prepare a 2nd bottle at a 1:10 dilution. Incubate the bottles at 75 - 85°C. Plate 0.1 ml of the inoculated culture onto a non-selective medium and incubate aerobically at 37°C. Inoculate a nonselective anaerobic and aerobic broth and incubate at 70°C

4. Growth should be detected in the #2186 broth within 24 - 48 hours. There should be no growth detected on the aerobic plate. There should be no growth in the nonselective aerobic or anaerobic broth.

Notes

It is important to keep the headspace-liquid ratio high as this enhances H₂ and O₂ transfer to the culture.

Cells appear as rods and may be motile for a short period at room temperature.

The cryoprotectant used for lyophilization may be somewhat inhibitory for growth, which is why we recommend diluting from the original inoculum.

The gas mix is flammable, use caution with the gas stream around open flames.

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Aquifex pyrophilus* Huber et al. (ATCC 51433)

References

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

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