



Pyrodictium delaneyi

BAA-2559™

Description

Thermophile, grows with Fe(III) oxide and Nitrate. Genome sequenced strain. Type strain.

Deposited As: *Pyrodictium delaneyi*

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 2848: Geoglobus Medium

Temperature: 90°C

Atmosphere: 80% H₂, 20% CO₂

Handling Procedures

1. Using ATCC Medium #2848 (with Fe (III) oxides), reduce with 3% HCl (0.1 mL per 10 mL) and gas exchange with 80% H₂ - 20% CO₂. Treat the culture like any other extremophilic anaerobe.
2. After inoculation, pressurize with 80% H₂ - 20% CO₂ up to 20 PSI.
3. Incubate in a water bath at 90°C for 24 hours. Do not incubate longer than 24 hours; culture will not be able to sustain viability.

Notes

Cells are non-motile, ovoid rods, arranged singly and in clumps.

When growth is present, the brown sediment in the medium will turn black.

ATCC Medium #2858 can be used as an alternate medium. This medium uses KNO₃ instead of Fe (III) oxide, and is recommended for molecular work.

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: *Pyrodictium delaneyi* (ATCC BAA-2559)

References

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

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