Thermus sp.

27737™

Description

Thermus sp. strain T2 is a thermophile isolated in 1968 from a hot spring at Yellowstone National Park. It is part of the National Park Service (NPS) Special Collection. This strain is inducible for a thermostable beta-galactosidase on lactose and galactose.

Strain designation: T2
Deposited As: *Thermus* sp.
Type strain: No

Storage Conditions

Product format: Freeze-dried
Storage conditions: 2°C to 8°C

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 723: Castenholz TYE medium, modified
Temperature: 70°C
Atmosphere: Aerobic
Incubation: With shaking

Handling Procedures

1. Open vial according to enclosed instructions.
2. Using a single tube of #723 broth, withdraw 0.5 ml with a Pasteur pipette and rehydrate the entire pellet.

3. Incubate the broth culture at 70°C with shaking. Growth should be detected within 24 to 48 hours.
4. After growth has been obtained in the broth the broth can be used to inoculate fresh slants and plates. For best results incubate the slants and plates in a closed jar with a moistened paper towel to maintain the humidity and to prevent desiccation.

Notes

Growth should be detected within 24 to 48 hours. Cells are rods, graceful and delicate, mostly single, some parallel loops, aggregates that form balls.

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Thermus* sp. (ATCC 27737)

References

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

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