Thermus thermophilus (Oshima and Imahori) Williams et al.

27634™

Description

Type strain. Used in enzyme studies for phosphoglucomutase, phosphofructokinase, and fructose 1,6-diphosphatase. Resistant to heavy metal ions. Produces thermostable D-xylose isomerase.and restriction endonuclease *TthHB8I*. Genome sequenced strain.

Strain designation: HB8
Deposited As: *Thermus thermophilus* Oshima and Imahori
Type strain: Yes

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 697: Thermus medium
Temperature: 70°C
Atmosphere: Aerobic

Handling Procedures

1. Open vial according to enclosed instructions or visit www.atcc.org for

instructions.

2. Rehydrate the entire pellet with approximately 0.5 mL of #697 broth. Aseptically transfer the entire contents to a 5-6 mL tube of #697 broth. Additional test tubes can be inoculated by transferring 0.5 mL of the primary broth tube to these secondary tubes.
3. Use several drops of the primary broth tube to inoculate a #697 plate and/or #697 agar slant.
4. Incubate at 70°C for 24-48 hours.

Notes

Bacteriophage may be present in culture. Plaques may be visible on 70°C agar plates. Parafilm or tape agar cultures, plates and kolles, to prevent the agar from drying out. 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: *Thermus thermophilus* (Oshima and Imahori) Williams et al. (ATCC 27634)

References

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

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Revision

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