



Thermoleophilum minutum Zarilla and Perry

35265™

Description

Thermoleophilum minutum strain YS-4 is a thermophilic type strain isolated in 1977 from a hot spring at Yellowstone National Park. This strain is part of the National Park Service special collection.

Strain designation: YS-4

Deposited As: *Thermoleophilum album* Zarilla and Perry

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

***Thermoleophilum minutum* Zarilla and Perry**

35265

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 1554: Mineral salts (L-salts) for thermophiles

Temperature: 55°C**Atmosphere:** Aerobic

Handling Procedures

1. Open vial according to enclosed instructions.
2. Withdraw approximately 0.5 to 1.0 ml from a tube of #1554 broth (5 to 6 ml)

and rehydrate the freeze-dried pellet.

3. Aseptically transfer this aliquot back into the tube of #1554 and mix well. Take 0.5 ml of the suspension and transfer to a second tube of broth. Transfer 0.1 ml to plates. Incubate tubes at 55°C. Seal the plates in bags or with autoclave tape to prevent drying.

Notes

The culture will remain viable for up to one week when stored at room temperature. Use a large inoculum (10% or greater) for subsequent transfers. Growth is detectable within 24 to 72 hours.

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: *Thermoleophilum minutum* Zarilla and Perry (ATCC 35265)

References

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

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***Thermoleophilum minutum* Zarilla and Perry**

35265

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