Saccharolobus solfataricus (Zillig et al) Sakai and Kurosawa

35091™

Description

Saccharolobus solfataricus strain DSM 1616 [P1] is a thermophilic type strain that was isolated from a volcanic hot spring in Italy.

Strain designation: DSM 1616 [P1]
Deposited As: *Sulfolobus solfataricus* Zillig et al.
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 1304: Sulfolobus solfataricus medium
Temperature: 75°C
Atmosphere: Aerobic

Handling Procedures

1. Open vial.
2. Using a single tube of #1304 broth (5 to 6 mL), withdraw approximately 0.5 to 1.0 mL with a Pasteur or 1.0 mL pipette and rehydrate the entire freeze-dried pellet.

3. Aseptically transfer this aliquot back into the broth tube. Mix well.
4. Use several drops of the suspension to inoculate a #1304 agar slant and/or plate.
5. Incubate the tubes and plate at 75°C. After two to three days, growth is indicated by turbidity that settles to the bottom of the test tube and is easily resuspended when the test tube is inverted. When examined microscopically, the cells appear as large cocci, generally as single cells sometimes as pairs.

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 hours and no later than 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: *Saccharolobus solfataricus* (Zillig et al) Sakai and Kurosawa (ATCC 35091)

References

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

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