Sulfoacidibacillus thermotolerans

TSD-104™

Description

Sulfoacidibacillus thermotolerans strain Y002 is an acidophilic bacterium that was isolated from the gibbon river area from an acidic enrichment culture containing ferrous iron and yeast extract at Yellowstone National Park. This strain is part of the National Park Service (NPS) Special Collection.

Strain designation: Y002

Type strain: Yes

Type strain description: This culture provided to the ATCC type strain depository is neither produced nor characterized by ATCC. No technical information is available on this material. Refer to depositor for technical information on this strain.

Technical information: ATCC Product Experience does not have technical information on type strain deposits that are not fully characterized. Additional information can be found in the depositor's publication.

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

Temperature: 30°C
Atmosphere: Aerobic
Incubation: 2-4 days

Handling Procedures

Depositor-recommended growth conditions:

SJH Growth Medium until exponential phase is reached.

SJH Growth Medium
1.80 g Galactose
25 g Tryptic Soy Broth (BD 211825)
3.80 g Ferrous sulfate (anhydrous)
0.76 g Potassium tetrathionate
DI H_2O to 1 L

Mix components and adjust for pH 2.0-2.5 with H_2SO_4. Autoclave at 121°C.

Basal Salts Solution
12.5 g $(NH_4)_2SO_4$
5.0 g $MgSO_4$ * $7H_2O$
DI H_2O to 1 L

Filter sterilize.

Immediately before use, add basal salts to SJH Growth Medium to final concentration of 10% Basal Salts

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Sulfoacidibacillus thermotolerans* (ATCC TSD-104)

References

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

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