



# *Pyrobaculum igneiluti*

TSD-56™

## Description

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

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## Storage Conditions

**Product format:** Frozen

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## 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.

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## 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.

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## Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at [www.atcc.org](http://www.atcc.org).

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## Growth Conditions

**Temperature:** 90°C

**Incubation:** 5 days

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## Handling Procedures

### Depositor-recommended growth conditions:

The medium contains the following (final concentration):

PIPES (9mM), K<sub>2</sub>HPO<sub>4</sub> (2 mM), NH<sub>4</sub>Cl (18 mM), NaCl (0.36% w/v) and trace elements solution (0.36% v/v, see below), adjusted to pH 7.0 at 25 °C using 10M NaOH.

Resazurin (0.0001% w/v) is added as a redox indicator. The medium is transferred to 30 mL Balch tubes, sealed with rubber stoppers, crimped, and bubbled with 100% N<sub>2</sub> gas then autoclaved (Balch et al., 1979).

After autoclaving, sterile tryptone/yeast/beef (TYB) extract (0.05% w/v for each ingredient) and sodium thiosulfate (10 mM) are added by syringe as the carbon source and the final electron acceptor, respectively. Na<sub>2</sub>S·9H<sub>2</sub>O (0.03% w/v) was added immediately before inoculation to remove any remaining oxygen, with clearing of the resazurin indicating complete anaerobiosis.

Trace Mineral Solution (Wolin et al, 1963)

1.5g Nitrilotriacetic acid, 3.0g MgSO<sub>4</sub>, 0.5g MnSO<sub>4</sub>, 1.0g NaCl, 0.1g FeSO<sub>4</sub>, 0.1g CaCl<sub>2</sub>, 0.1g CoCl<sub>2</sub>, 0.1g Zn SO<sub>4</sub>, 0.01g CuSO<sub>4</sub>, 0.01g AlK(SO<sub>4</sub>)<sub>2</sub>, 0.01g H<sub>3</sub>BO<sub>4</sub>, 0.01g Na<sub>2</sub>MoSO<sub>4</sub>.  
Distilled H<sub>2</sub>O to 1000mL.

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## Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Pyrobaculum igneiluti* (ATCC TSD-56)

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## References

References and other information relating to this material are available at [www.atcc.org](http://www.atcc.org).

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## Revision

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