



# TSD-98

## TSD-98™

### Description

**Strain designation:** HCE1

**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:** 25°C

**Atmosphere:** Aerobic

**Incubation:** 10-12 days

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### Handling Procedures

**Depositor-recommended growth conditions:** Bicarbonate-buffered synthetic crenarchaeota medium in the dark with no shaking.

Bicarbonate-buffered synthetic crenarchaeota medium (per liter)  
26 g NaCl

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5 g  $\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$   
5 g  $\text{MgCl}_2 \cdot 6\text{H}_2\text{O}$   
1.5 g  $\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$   
0.1 g KBr  
3 ml  $\text{NaHCO}_3$  (1 M)  
5 ml  $\text{KH}_2\text{PO}_4$  (0.4 g/l)  
1 ml FeNaEDTA solution (7.5 M)  
1 ml trace element solution  
0.2 ml  $\text{NH}_4\text{Cl}$  (1 M)  
0.1 ml alpha-ketoglutaric acid (100 mM).

Trace element solution (per liter)

8 ml conc. HCl (~12.5M)  
30 mg  $\text{H}_3\text{BO}_3$   
100 mg  $\text{MnCl}_2 \cdot 4\text{H}_2\text{O}$   
190 mg  $\text{CoCl}_2 \cdot 6\text{H}_2\text{O}$   
24 mg  $\text{NiCl}_2 \cdot 6\text{H}_2\text{O}$   
2 mg  $\text{CuCl}_2 \cdot 2\text{H}_2\text{O}$   
144 mg  $\text{ZnSO}_4 \cdot 7\text{H}_2\text{O}$   
36 mg  $\text{Na}_2\text{MoO}_4 \cdot 2\text{H}_2\text{O}$

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### Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: TSD-98 (ATCC TSD-98)

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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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### Warranty

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The product is provided 'AS IS' and the viability of ATCC® products is warranted for 30 days from the date of shipment, provided that the customer has stored and handled the product according to the information included on the product information sheet, website, and Certificate of Analysis. For living cultures, ATCC lists the media formulation and reagents that have been found to be effective for the product. While other unspecified media and reagents may also produce satisfactory results, a change in the ATCC and/or depositor-recommended protocols may affect the recovery, growth, and/or function of the product. If an alternative medium formulation or reagent is used, the ATCC warranty for viability is no longer valid. Except as expressly set forth herein, no other warranties of any kind are provided, express or implied, including, but not limited to, any implied warranties of merchantability, fitness for a particular purpose, manufacture according to cGMP standards, typicality, safety, accuracy, and/or noninfringement.

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ATCC may fully accessions new type strains into its general culture collection. At that time, ATCC will provide an "ATCC" designation to the strain, fully characterize the strain, and provide a Certificate of Analysis with authentication data for that specific item.

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## Revision

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