



Product Sheet

# *Thermoanaerobacter ethanolicus* (ATCC® 31550™)

Please read this **FIRST**



## Intended Use

This product is intended for research use only. It is not intended for any animal or human therapeutic or diagnostic use.

## Citation of Strain

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: *Thermoanaerobacter ethanolicus* (ATCC® 31550™)

American Type Culture Collection  
PO Box 1549  
Manassas, VA 20108 USA  
[www.atcc.org](http://www.atcc.org)

800.638.6597 or 703.365.2700  
Fax: 703.365.2750  
Email: [Tech@atcc.org](mailto:Tech@atcc.org)

Or contact your local distributor

## Description

**Designation:** JW 200 [DSM 2246]

**Deposited Name:** *Thermoanaerobacter ethanolicus* Wiegel and Ljungdahl

## Propagation

### Medium

ATCC® Medium 1190: *Thermoanaerobacter ethanolicus* medium

### Growth Conditions

**Temperature:** 55.0°C

**Atmosphere:** Anaerobic

### Propagation Procedure

1. Open vial according to enclosed instructions.
2. Perform all steps under anaerobic conditions (see below).
3. Aseptically transfer 0.5 ml of ATCC Medium #1190 to the vial and rehydrate the freeze-dried pellet, immediately place the rehydrated pellet under a stream of oxygen-free sterile gas. Then transfer the suspension back into the tube of broth. Inoculate a plate of non-selective medium with 0.1 of the culture. Inoculate a non-selective tube of broth.
4. Seal the test tube with a rubber stopper and incubate anaerobically at 55°C. The rubber stoppers should be tapped down to insure that the anaerobic conditions are maintained during incubation. Incubate the plate(s) and aerobic broth at 37°C as a purity check.
5. After one or three days, growth should be evident by turbidity through out the broth. Once growth has been established, the culture should be transferred to fresh broth every 24 to 48 hours.
6. This culture is very sensitive to oxygen; therefore steps should be taken to avoid exposure to oxygen. When the culture exhibits good growth it will remain viable for up to 1 week if stored at 4°C under anaerobic conditions.

### ANAEROBIC CONDITIONS:

- Tubes of media are placed under a gassing cannula system hooked to a source of oxygen free gas.
- All transfers are performed while the test tubes are on the cannula system with a gentle stream of oxygen-free gas flowing through the system.
- As the test tubes are removed from the cannula system each is sealed with butyl rubber stopper thus maintaining the anaerobic headspace.

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## Notes

Additional information on this culture is available on the ATCC web site at [www.atcc.org](http://www.atcc.org).

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## References



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## **Biosafety Level: 1**

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the current publication of the *Biosafety in Microbiological and Biomedical Laboratories* from the U.S. Department of Health and Human Services Centers for Disease Control and Prevention and National Institutes for Health.

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## **Disclaimers**

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Please see the enclosed Material Transfer Agreement (MTA) for further details regarding the use of this product. The MTA is also available on our Web site at [www.atcc.org](http://www.atcc.org)

Additional information on this culture is available on the ATCC web site at [www.atcc.org](http://www.atcc.org).

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