



Treponema sp.

3151™

Description

- **Strain designation** T9
 - **Deposited As** *Treponema* sp.
 - **Type strain** No
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Storage Conditions

- **Product format** Freeze-dried
 - **Storage conditions** 2°C to 8°C
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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.

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 1257: ETSA medium](#)
 - **Temperature** 37°C
 - **Atmosphere** Anaerobic
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Handling Procedures

- 1. Open vial according to enclosed instructions.
 2. Using a single tube of #1257 broth (5 to 6 mL), withdraw 0.5 mL and rehydrate the entire pellet under anaerobic conditions.
 3. Aseptically transfer this aliquot back into the broth tube. Mix well.
 4. Incubate tubes under anaerobic conditions at 37°C for up to 14 days. Subsequent transfers should require only 5 to 7 days incubation. A heavy inoculum is recommended for subculture.

ANAEROBIC CONDITIONS:

- a. Balch tubes (available from Bellco Glass, Vineland, NJ) are specially designed for anaerobic work and use an aluminum crimp cap to hold a rubber stopper in place. Needles can easily be inserted through the stopper. Alternatively, screw cap tubes with butyl rubber stoppers can be used. In the latter case, the stopper may be removed and the tube placed under a cannula system that dispenses sterile, oxygen-free gas for addition of reducing agents or inoculation.
- b. Resazurin is a commonly used redox indicator that is pink when the redox potential is above -50 mv, and colorless when the redox potential is below -110 mv (*i.e.*, highly reducing). Most strict anaerobes require this low redox potential for optimum growth.
- c. To obtain a fully reduced medium, the medium must be anoxic and a reducing agent must be added. Common reducing agents are sodium sulfide, cysteine, dithiothreitol, titanium citrate and Co-enzyme M (mercaptoethanesulfonic acid). For this culture, Co-enzyme M or Cysteine is the agent of choice.
- d. Syringes can be made anaerobic by one of two methods:

1. Displace the dead space in the syringe with a reducing agent.
 2. Displace the dead space in the syringe with a sterile oxygen-free gas.
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Notes

This strain will not grow on solid medium.

Cultures are viable in broth for approximately 5 days after good growth is obtained.

Always use freshly prepared pre-reduced media or pre-reduced media that has been previously prepared but stored under anaerobic conditions and in the dark. Resazurin in the media is a color indicator for anaerobic conditions. Observance of pink color in medium before use or during incubation show anaerobic conditions have not been met and oxidation has occurred. Medium should be discarded.

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: *Treponema sp.* (ATCC 43151)

References

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

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