



Product Sheet

# *Borrelia burgdorferi* (ATCC® 53899™)

Please read this FIRST



Storage Temp.  
**Frozen: -80°C or colder**  
**Freeze-Dried: 2°C to 8°C**  
**Live Culture: See Propagation Section**

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Biosafety Level  
**2**

## 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: *Borrelia burgdorferi* (ATCC® 53899™)

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:** 297

**Deposited Name:** *Borrelia burgdorferi* Johnson et al. emend. Baranton et al.

## Propagation

### Medium

ATCC® Medium 1914: Revised BSK medium

ATCC® Medium 260: Trypticase soy agar/broth with defibrinated sheep blood

### Growth Conditions

**Temperature:** 35°C to 37°C

**Atmosphere:** Aerobic

### Propagation Procedure

1. Open thawed vial according to enclosed instructions or visit [www.atcc.org](http://www.atcc.org) for instructions.
2. Aseptically transfer the entire contents to a 5-6 mL tube of #1914 broth. Mix well.
3. Transfer one-tenth of the cell suspension to two or three additional tubes of fresh #1914 broth.
4. Use several drops of the primary broth tube to inoculate a #260 sheep blood plate to check for contamination. No growth should occur on the blood agar.
5. Incubate at 35-37°C for 4-6 days.

## Notes

Acid formation during growth will change the medium from orange to red. Turbidity is not evident. Cells can be monitored under phase microscopy as long, spiral, motile rods.

*Borrelia burgdorferi* is a fragile, sensitive organism that must have the appropriate medium for growth. Rabbit serum is essential for the growth of this organism. Fresh medium enhances growth. Medium older than one month should not be used.

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

## References

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

## Biosafety Level: 2

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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## ***Borrelia burgdorferi*** **(ATCC<sup>®</sup> 53899<sup>™</sup>)**

the misidentification or misrepresentation of such materials.


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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