ATCC

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

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

800.638.6597 or 703.365.2700
Fax: 703.365.2750
Email: 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 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.

References

References and other information relating to this product are available online at 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.

ATCC Warranty

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Disclaimers

This product is intended for laboratory research purposes only. It is not intended for use in humans.
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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

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