ATCC

Product Sheet

Borrelia burgdorferi (ATCC® 55131™)

Please read this FIRST

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® 55131™)

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: HB19M
Deposited Name: *Borrelia burgdorferi* Johnson et al. emend. Baranton et al.

Propagation

Growth Conditions
Temperature: 37.0°C
Atmosphere: Aerobic

Propagation Procedure
1. Thaw and aseptically transfer the entire contents of the vial to a tube of fresh #2411 broth (5 to 6 ml). Mix well.
2. Transfer one-tenth of the cell suspension to two or three additional tubes of fresh #2411 broth.
3. Incubate at 37°C

Notes

Growth usually occurs after 3 days, although some strains may take up to 7 days to grow. 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 rods, and this organism should be nonmotile. **Growing this strain in the presence of yeastolate will cause this organism to revert back to the wild type and be motile.**
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

The viability of ATCC® products is warranted for 30 days from the date of shipment, and is valid only if the product is stored and cultured according to the information included on this product information sheet. ATCC lists the media formulation that has been found to be effective for this strain. While other, unspecified media may also produce satisfactory results, a change in media or the absence of an additive from the ATCC recommended media may affect recovery, growth and/or function of this strain. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

Disclaimers

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

While ATCC uses reasonable efforts to include accurate and up-to-date information on this product sheet, ATCC makes no warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. ATCC does not warrant that such information has been confirmed to be accurate.

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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

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