



Product Sheet

# *Borrelia burgdorferi* (ATCC® 35210™)

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® 35210™)

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:** B31

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

**Product Description:** Type strain. Genome sequence strain. Absence of lipopolysaccharide. Causative agent of Lyme disease. Survival in experimentally infected human blood.

## Propagation

### Medium

ATCC® Medium 1914: Revised BSK medium

### Growth Conditions

**Temperature:** 37°C

**Atmosphere:** Microaerophilic

### Propagation Procedure

1. Thaw cryovial at room temperature and aseptically transfer the entire contents of the vial to a 10 mL tube of fresh #1914 broth. Mix well.
2. Transfer one-tenth of this cell suspension to two or three additional 10 mL tubes of fresh #1914 broth.
3. Incubate at 37°C. Microaerophilic conditions are needed to support proper growth, so the use of a CampyPak or similar microaerophilic atmosphere generator is recommended. Growth can be observed in an aerobic environment, but not as well as under microaerophilic conditions. Growth does not occur on agar.

## Notes

Growth usually occurs after 5 to 7 days. Acid formation during growth will change the medium to a light or yellowish-orange color. Turbidity is not evident. Cells can be monitored under phase microscopy as long spiral rods, and their motility by the twitching movement.

*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.

Purified genomic DNA of this strain is available as ATCC® 35210D-5™.

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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## 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,



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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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