ATCC

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

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

800.638.6597 or 703.365.2700
Fax: 703.365.2750
Email: 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 tube of fresh #1914 broth. Mix well.
2. Transfer one-tenth of this cell suspension to two or three additional 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.

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

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and patents are provided for informational purposes only. ATCC does not warrant that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, and use. ATCC is not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to insure authenticity and reliability of strains on deposit, ATCC is not liable for damages arising from the misidentification or misrepresentation of cultures.

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

Additional information on this culture is available on the ATCC web site at www.atcc.org.

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