Borrelia burgdorferi Johnson et al. emend. Baranton et al.

BAA-3768™

Description

This product is an ATCC manufactured and accessioned progeny of 55131 cited in US Patent Number 5,436,000.

Strain designation: HB19M

Deposited As: ATCC accessioned progeny of *Borrelia burgdorferi* strain HB19M cited in US Patent Number 5,436,000 as 55131.

Type strain: No

Storage Conditions

Product format: Frozen

Storage conditions: -80°C or colder

Intended Use

This product is intended for laboratory research use only. It is not intended for any animal or human therapeutic use, any human or animal consumption, or any diagnostic use.

BSL 2

ATCC determines the biosafety level of a material based on our risk assessment as guided by the current edition of *Biosafety in Microbiological and Biomedical Laboratories (BMBL)*, U.S. Department of Health and Human Services. It is your responsibility to understand the hazards associated with the material per your organization's policies

and procedures as well as any other applicable regulations as enforced by your local or national agencies.

ATCC highly recommends that appropriate personal protective equipment is always used when handling vials. For cultures that require storage in liquid nitrogen, it is important to note that some vials may leak when submersed in liquid nitrogen and will slowly fill with liquid nitrogen. Upon thawing, the conversion of the liquid nitrogen back to its gas phase may result in the vial exploding or blowing off its cap with dangerous force creating flying debris. Unless necessary, ATCC recommends that these cultures be stored in the vapor phase of liquid nitrogen rather than submersed in liquid nitrogen.

Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at www.atcc.org.

Growth Conditions

Medium:
ATCC Medium 2411: 2411 BSK Medium, revised, w/o TC Yeastolate
Temperature: 37°C
Atmosphere: Aerobic

Handling Procedures

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.

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Borrelia burgdorferi* Johnson et al. emend. Baranton et al. (ATCC BAA-3768)

References

References and other information relating to this material are available at www.atcc.org.

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Revision

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