ATCC

Nucleic Acid Product Sheet

Babesia microti (Franca) Reichenow (ATCC® 30221D™)

Please read this FIRST

Storage Temp.
-20°C or colder

Biosafety Level
1

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: *Babesia microti* (Franca) Reichenow (ATCC® 30221D™)

Nucleic Acid Information

Total DNA: at least 200 ng by PicoGreen®
Copy number: ≥ 5 x 10^3 copies/µL
OD_{260}/OD_{280}: 1.6 to 2.1

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

Source: *Babesia microti* (Franca) Reichenow
Designation: Quantitated genomic DNA from *Babesia microti* strain Gray (ATCC® 30221™)
Note: Aliquotting is highly recommended to avoid multiple freeze-thaws.
This preparation of high molecular weight DNA is appropriate for use in the polymerase chain reaction (PCR)* process and other molecular biology applications.
*The PCR process is covered by patents owned by Hoffmann-La Roche Inc. Use of the PCR process requires a license.

Batch-Specific Information

Refer to the Certificate of Analysis for batch-specific test results.

Preparation Procedure

1. Thaw the vial at room temperature and immediately place on ice.
2. Gently mix the sample to ensure an even distribution of material.
3. Briefly centrifuge the tube before opening to ensure all liquid is at the bottom.

Quality Control Information

1. Protist genomic DNA is provided in a liquid form. Store at -20°C upon receipt.
2. Concentration by PicoGreen® measurement was found to be approximately 0.2 µg.
3. Quantitation of DNA copy number by ddPCR™ of *B. microti* ITS1 was found to be ≥ 5 x 10^3 copies/µL.
4. Purity: OD_{260}/OD_{280} ratio.
5. Integrity of DNA was determined by electrophoresis on a 1.2% agarose gel stained with nucleic acid stain, and was found to be intact and of high molecular weight.
6. No RNA was detected by electrophoresis.
7. Functional activity was confirmed by PCR amplification of *B. microti* ITS1, 5.8S rRNA, ITS2.
8. Identity confirmed by sequencing of ITS1, 5.8S rRNA, ITS2.

Biosafety Level: 1

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.

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 ensure 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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