

**Genomic DNA from *Babesia microti*, Strain GI**

**Catalog No. NR-50774**

**Product Description:**

Genomic DNA was extracted from *Babesia microti* (*B. microti*), strain GI, which was originally isolated in 1983 from blood obtained from a human case of babesiosis in Nantucket, Massachusetts, USA. NR-50774 was extracted from a preparation of BEI Resources NR-44070 lot 70062613 using proprietary technology and vialled in 10 mM Tris-HCl, 1 mM EDTA, pH 7.5.

**Lot: 70063430**

**Manufacturing Date: 10NOV2023**

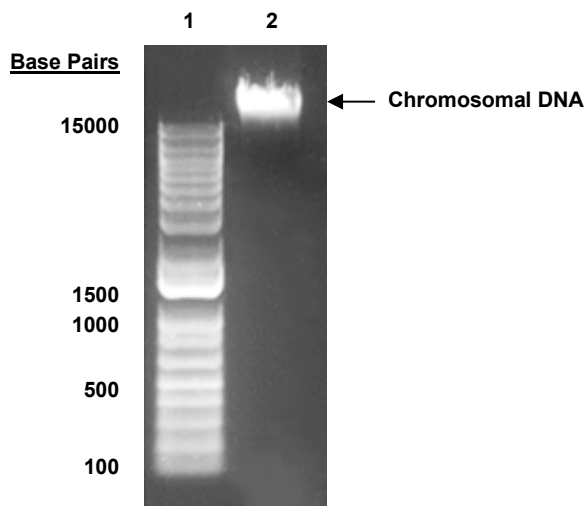
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TEST	SPECIFICATIONS	RESULTS
<b>Agarose Gel Electrophoresis</b>	High molecular weight chromosomal DNA	High molecular weight chromosomal DNA (Figure 1)
<b>Content by PicoGreen® Measurement</b>	0.2 to 3.5 µg in 20 to 200 µL per vial	2.9 µg in 50 µL per vial (58 µg/mL)
<b>Amount per Vial</b>	0.2 to 3.5 µg	2.9 µg
<b>Genotypic Analysis</b> Sequencing of internal transcribed spacer (ITS) 1, 5.8S ribosomal RNA gene, ITS 2 (~ 760 base pairs)	≥ 99% sequence identity to <i>B. microti</i> , strain GI (GenBank: JGUY01000109.1)	100% sequence identity to <i>B. microti</i> , strain GI (GenBank: JGUY01000109.1)
<b>PCR Assay of Extracted DNA<sup>1</sup></b> ITS 1, 5.8S ribosomal RNA gene, ITS 2	~ 930 base pair amplicon	~ 930 base pair amplicon
<b>OD<sub>260</sub>/OD<sub>280</sub> Ratio</b>	1.7 to 2.1	1.9
<b>Protozoan Inactivation</b> 10% of total yield inoculated in medium <sup>2</sup>	No viable organisms detected	No viable organisms detected

<sup>1</sup>Primer sequences and conditions for PCR are available upon request.

<sup>2</sup>Incubated in human Type O erythrocytes for 14 days at 37°C in an atmosphere of 93% N<sub>2</sub>: 5% CO<sub>2</sub>: 2% O<sub>2</sub> in DMEM/F12 adjusted to contain 20% heat-inactivated fetal bovine serum, 2.5 mM L-glutamine, 100 µM hypoxanthine, 16 µM thymidine, 100 IU/mL penicillin, 100 µg/mL streptomycin, 0.25 µg/mL amphotericin B and 100 µg/mL gentamicin.

Figure 1: Agarose Gel Electrophoresis



Lane 1: Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder  
 Lane 2: ~ 200 ng of NR-50774

/Sonia Bjorum Brower /  
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20 MAR 2024

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