

**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 from blood obtained from a human case of babesiosis in Nantucket, Massachusetts, USA, in 1983.

**Lot: 70013555<sup>1</sup>**

**Manufacturing Date: 16FEB2018**

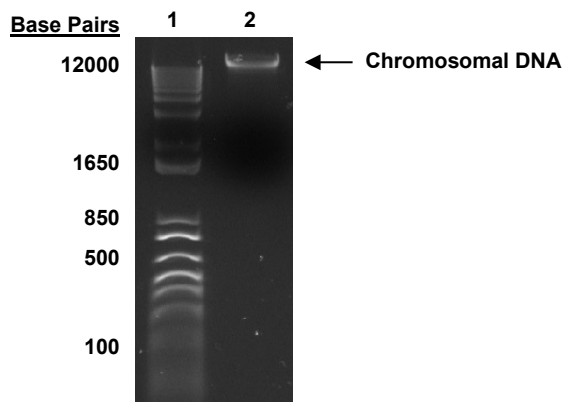
TEST	SPECIFICATIONS	RESULTS
<b>Agarose Gel Electrophoresis</b>	High molecular weight chromosomal DNA	High molecular weight chromosomal DNA (Figure 1)
<b>Content by PicoGreen<sup>®</sup> Measurement</b>	0.2 to 3.5 µg in 20 to 200 µL per vial	1.8 µg in 45 µL per vial (40 µg/mL)
<b>Amount per Vial</b>	0.2 to 3.5 µg	1.8 µg
<b>Genotypic Analysis</b> Sequencing of internal transcribed spacer (ITS) 1, 5.8S ribosomal RNA gene, ITS 2 (~ 730 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>2</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	1.8
<b>Protozoan Inactivation</b> 10% of total yield inoculated in medium <sup>3</sup>	No viable organisms detected	No viable organisms detected

<sup>1</sup>NR-50774 was extracted from BEI Resources NRS-44070 lot 61937809 using proprietary technology. NR-50774 lot 70013555 is provided in 10 mM Tris-HCl, 1 mM EDTA, pH 7.5.

<sup>2</sup>Primer sequences and conditions for PCR are available upon request.

<sup>3</sup>Incubated for 14 days at 37°C in a humidified atmosphere of 93% N<sub>2</sub>: 5% CO<sub>2</sub>: 2% O<sub>2</sub> in *Babesia* Growth Medium [HL-1™ Chemically Defined, Serum-Free Medium (Lonza 77201) adjusted to contain 20% human serum type A positive, 1% HB 101<sup>®</sup> supplement (Irvine Scientific<sup>®</sup> T151), 2 mM L-glutamine, 0.2 mM hypoxanthine and 0.03 mM thymidine].

**Figure 1: Agarose Gel Electrophoresis**



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

/Heather Couch/

Heather Couch

18 DEC 2019

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