

Genomic DNA from *Babesia* sp., Strain MO1

Catalog No. NR-50663

Product Description: Genomic DNA was extracted from *Babesia* sp., strain MO1, which was isolated in 2003 from the blood of a wild Eastern cottontail rabbit (*Sylvilagus floridanus*) on Nantucket Island, Massachusetts, USA, and adapted to continuous *in vitro* culture in human erythrocytes.

Lot¹: 70004194

Manufacturing Date: 24MAR2017

TEST	SPECIFICATIONS	RESULTS
Agarose Gel Electrophoresis	High molecular weight chromosomal DNA	High molecular weight chromosomal DNA (Figure 1)
Content by PicoGreen[®] Measurement	0.2 to 3.5 µg in 20 to 200 µL per vial	0.48 µg in 25 µL per vial (19 µg/mL)
Amount per vial	0.2 to 3.5 µg	0.48 µg
Genotypic Analysis Sequencing of 18S ribosomal RNA gene (~ 1580 base pairs)	≥ 99% sequence identity to <i>Babesia</i> sp., strain MO1 (GenBank: AY048113.1)	99.9% sequence identity to <i>Babesia</i> sp., strain MO1 (GenBank: AY048113.1) ²
PCR Assay of Extracted DNA³ 18S ribosomal RNA gene	~ 2100 base pair amplicon	~ 2100 base pair amplicon
OD₂₆₀/OD₂₈₀ Ratio	1.7 to 2.1	1.9
Protozoan Inactivation 10% of total yield inoculated in medium ⁴	No viable organisms detected	No viable organisms detected

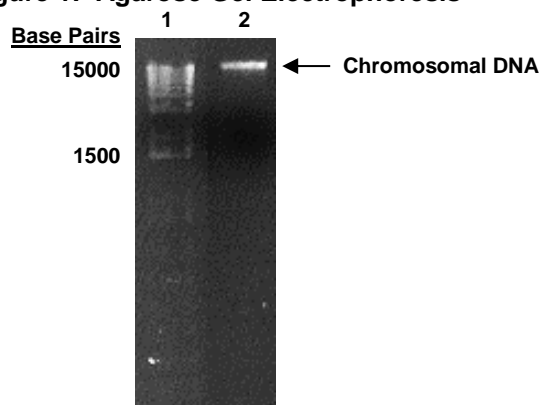
¹NR-50663 was extracted from an established culture of the deposited material that was also used to produce NR-50441 lot 70002062. Genomic DNA was extracted from the organism using proprietary technology. NR-50663 lot 70004194 is provided in 10 mM Tris-HCl, 0.5 mM EDTA, pH 9.

²Also consistent with other *Babesia* species

³Primer sequences and conditions for PCR are available upon request.

⁴Incubated for 14 days at 37°C in a humidified atmosphere of 93% N₂: 5% CO₂: 2% O₂ 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[®] supplement (Irvine Scientific[®] 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-50663

/Heather Couch/
Heather Couch

20 JUN 2018

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