

**Genomic DNA from *Brucella abortus*, Strain 19 (S19)**

**Catalog No. NR-50438**

**Product Description:**

Genomic DNA was extracted from a preparation of *Brucella abortus* (*B. abortus*), strain 19, biovar 1. The bacterial preparation used for extraction of genomic DNA was produced by culture of BEI Resources NR-10134 lot 70000098. Genomic DNA was extracted using proprietary technology.

**Lot: 70000100**

**Manufacturing Date: 14DEC2016**

TEST	SPECIFICATIONS	RESULTS
<b>Genotypic Analysis</b> Sequencing of 16S ribosomal RNA gene (~ 710 base pairs)	≥ 99% sequence identity to <i>B. abortus</i> , strain 19 (GenBank: CP000887.1 and CP000888.1)	99.2% sequence identity to <i>B. abortus</i> , strain 19 (GenBank: CP000887.1 and CP000888.1) <sup>1</sup>
<b>Agarose Gel Electrophoresis</b>	High molecular weight chromosomal DNA	High molecular weight chromosomal DNA
<b>Concentration by PicoGreen® Measurement</b>	0.7 to 1.5 µg in 25 to 100 µL per vial	1.2 µg in 30 µL per vial (42 µg/mL)
<b>Amount per Vial</b>	0.7 to 1.5 µg	1.2 µg
<b>Functional Activity by PCR Amplification</b> 16S ribosomal RNA gene	~ 1500 base pair amplicon	~ 1500 base pair amplicon
<b>OD<sub>260</sub>/OD<sub>280</sub> Ratio</b>	1.7 to 2.1	1.8
<b>Bacterial Inactivation</b> 10% of total yield plated on agar for 14 days <sup>2</sup>	No viable bacteria detected	No viable bacteria detected

<sup>1</sup>Also consistent with other *Brucella* species

<sup>2</sup>An extraction procedure was used that has been shown to consistently inactivate 100% of Gram-negative and Gram-positive bacteria.

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22 JAN 2024

Technical Manager or designee, ATCC Federal Solutions

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