

Genomic DNA from *Brucella abortus*, Strain 870 (NCTC 10505)

Catalog No. NR-50053

Product Description: Genomic DNA was extracted from a preparation of *Brucella abortus* (*B. abortus*), strain 870 (NCTC 10505), biovar 6.

Lot¹: 63808663

Manufacturing Date: 30JAN2015

TEST	SPECIFICATIONS	RESULTS
Sequencing of 16S Ribosomal RNA Gene (~ 1380 base pairs)	Consistent with <i>B. abortus</i>	Consistent with <i>B. abortus</i> ²
Agarose Gel Electrophoresis	High molecular weight chromosomal DNA	High molecular weight chromosomal DNA (Figure 1)
Concentration by PicoGreen[®] Measurement	0.7 to 1.5 µg in 25 to 100 µL per vial	0.94 µg in 28 µL per vial (34 µg/mL)
Functional Activity by PCR Amplification 16S ribosomal RNA gene	~ 1500 base pair amplicon	~ 1500 base pair amplicon
OD₂₆₀/OD₂₈₀ Ratio	1.7 to 2.1	1.6 ³
Bacterial Inactivation 10% of total yield plated on Tryptic Soy agar with 5% defibrinated sheep blood ^{4,5}	No viable bacteria detected	No viable bacteria detected

¹The bacterial preparation used for extraction of genomic DNA was produced by culture of BEI Resources NR-261 (lot 4741452). Genomic DNA was extracted using proprietary technology.

²Also consistent with other *Brucella* species

³Lot 63808663 did not meet the OD₂₆₀/OD₂₈₀ ratio specifications, however, the integrity gel (Figure 1) shows intact genomic DNA and PCR amplification was successful. An OD₂₆₀/OD₂₈₀ ratio of 1.6 may indicate the presence of protein impurities.

⁴9 days at 37°C in an aerobic atmosphere with 5% CO₂

⁵An extraction procedure was used that has been shown to consistently inactivate 100% of Gram-negative and Gram-positive bacteria.

Date: 17 FEB 2016

Signature:



BEI Authentication or designee

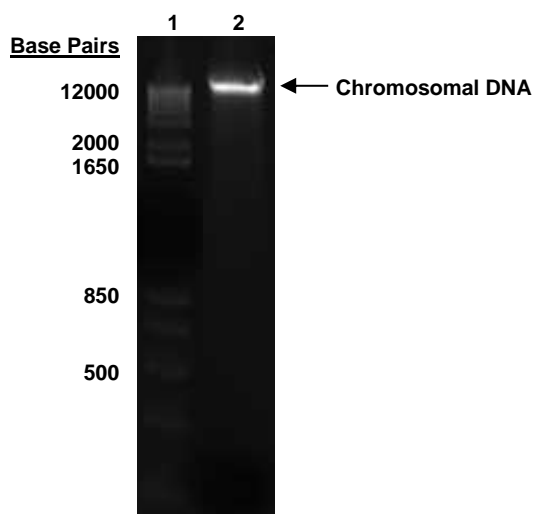
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Figure 1: Agarose Gel Electrophoresis



Lane 1: Invitrogen™ TrackIt 1 Kb Plus DNA Ladder™
Lane 2: 200 ng of NR-50053