Certificate of Analysis for NR-3034

Genomic DNA from *Francisella tularensis* subsp. *novicida*, Strain CG21

Catalog No. NR-3034

Product Description:

Genomic DNA was extracted from a preparation of *Francisella tularensis (F. tularensis)* subsp. *novicida*, strain CG21. The bacterial preparation used for extraction of genomic DNA was produced by culture of BEI Resources NR-579 lot 4067734. Genomic DNA was extracted using proprietary technology and is provided in TE buffer (10 mM Tris HCl, 1 mM EDTA, pH ~ 8).

Note: Quality control of HMP organisms used for DNA extraction is only performed to demonstrate that the material produced by BEI Resources is identical to the deposited material. It should not be considered a complete characterization of the deposited organism.

Lot: 70077246 **Manufacturing Date: 02SEP2025**

TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1410 base pairs)	≥ 99% sequence identity to *F. tularensis* subsp. *novicida*, strain CG21 (GenBank: CP000439.1)	100% sequence identity to *F. tularensis* subsp. *novicida*, strain CG21 (GenBank: CP000439.1)[1]
Agarose Gel Electrophoresis	High molecular weight chromosomal DNA	High molecular weight chromosomal DNA (Figure 1)
Concentration by PicoGreen® Measurement	0.7 µg to 1.5 µg in 25 µL to 100 µL/vial	1 µg in 31 µL/vial (32 µg/mL)
Amount per Vial	0.7 µg to 1.5 µg	1 µg
Functional Activity by PCR Amplification 16S ribosomal RNA gene	~ 1500 base pair amplicon	~ 1500 base pair amplicon
OD_{260}/OD_{280} Ratio	1.7 to 2.1	1.9
Bacterial Inactivation 10% of total yield plated on agar[2,3]	No viable bacteria detected	No viable bacteria detected

[1]Also consistent with other *Francisella* species.
[2]14 days at 37°C in an aerobic atmosphere with 5% CO_2 on Cysteine Heart agar with 5% defibrinated rabbit blood.
[3]An extraction procedure was used that has been shown to consistently inactivate 100% of Gram-positive and Gram-negative bacteria.

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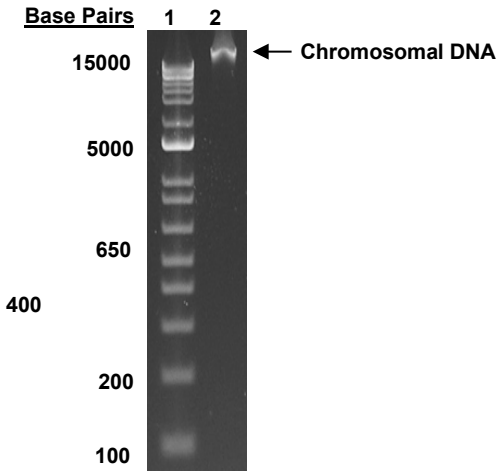
Figure 1: Agarose Gel Electrophoresis



Lane 1: Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder

/Sonia Bjorum Brower/
Sonia Bjorum Brower 24 NOV 2025
Technical Manager or designee, ATCC Federal Solutions

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected by ATCC® to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

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