SUPPORTING INFECTIOUS DISEASE RESEARCH

Genomic DNA from Francisella tularensis subsp. holarctica, CDC Live Vaccine Strain (LVS)

Catalog No. NR-3018

This reagent is the property of the U.S. Government.

Product Description: Genomic DNA was isolated from a preparation of *Francisella tularensis* (*F. tularensis*) subsp. *holarctica*, strain CDC LVS.

Lot¹: 62013068

Manufacturing Date: 19SEP2013

TEST	SPECIFICATIONS	RESULTS
Sequencing of 16S Ribosomal RNA Gene (~ 1470 base pairs)	Consistent with <i>F. tularensis</i> subsp. holarctica	Consistent with <i>F. tularensis</i> subsp. holarctica ²
Molecular Subtyping by PCR Amplification ³	Type B (subsp. <i>holarctica</i>)	Type B (subsp. <i>holarctica</i>)
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	1.1 μg in 28 μL per vial (0.04 μg/μL)
Functional Activity by PCR Amplification 16S ribosomal RNA gene	~ 1500 bp amplicon	~ 1500 bp amplicon
OD ₂₆₀ /OD ₂₈₀ Ratio	1.7 to 2.1	1.9
Bacterial Inactivation 10% of total yield plated on Chocolate agar with Isovitalex ^{4,5}	No viable bacteria detected	No viable bacteria detected

¹NR-3018 was produced by inoculation of NR-646 lot 7513128 into Mueller Hinton broth and grown 73 hours at 37°C in an aerobic atmosphere. Broth inoculum was added to Chocolate agar with Isovitalex kolles which were grown 49 hours at 37°C in an aerobic atmosphere. Genomic DNA was extracted using proprietary technology.

²Also consistent with other *F. tularensis* subspecies.

³Petersen, J. M., et al. "Laboratory Analysis of Tularemia in Wild-Trapped, Commercially Traded Prairie Dogs, Texas, 2002." <u>Emerg. Infect. Dis.</u> 10 (2004): 419-425. PubMed: 15109407.

⁴7 days at 37°C in an aerobic atmosphere on Chocolate agar with Isovitalex

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

Date: 11 MAR 2014

Signature:

Title:

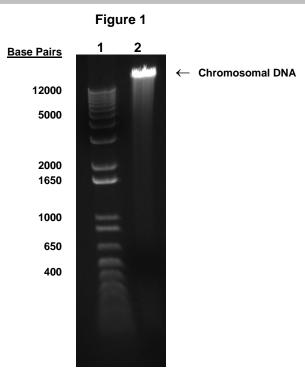
Technical Manager, BEI Authentication or designee

ATCC[®], on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected 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.

ATCC[®] is a trademark of the American Type Culture Collection. You are authorized to use this product for research use only. It is not intended for human use. bei resources

Certificate of Analysis for NR-3018

SUPPORTING INFECTIOUS DISEASE RESEARCH



Lane 1: Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder Lane 2: 200 ng of NR-3018

BEI Resources www.beiresources.org E-mail: <u>contact@beiresources.org</u> Tel: 800-359-7370 Fax: 703-365-2898