

**Genomic DNA from *Francisella tularensis* subsp. *tularensis*, Strain SCHU S4 (FSC237)**

**Catalog No. NR-3015**

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. *tularensis*, strain SCHU S4 (FSC237).

**Lot<sup>1</sup>: 58296809**

**Manufacturing Date: 12SEP2008**

TEST	SPECIFICATIONS	RESULTS
<b>Sequencing of 16S Ribosomal RNA Gene (~ 1400 bp)</b>	Report results Consistent with <i>F. tularensis</i> subsp. <i>tularensis</i>	Identical to GenBank: AJ698865 Consistent with <i>F. tularensis</i> subsp. <i>tularensis</i> <sup>2</sup>
<b>Molecular Subtyping by PCR Amplification<sup>3</sup></b>	Type A (subsp. <i>tularensis</i> )	Type A (subsp. <i>tularensis</i> )
<b>Agarose Gel Electrophoresis</b>	High molecular weight chromosomal DNA	High molecular weight chromosomal DNA (Figure 1)
<b>Concentration by PicoGreen<sup>®</sup> Measurement</b>	4 to 6 µg in 25 to 100 µL per vial	5.1 µg in 31 µL per vial (165 µg/mL)
<b>Functional Activity by PCR Amplification</b> 16S ribosomal RNA gene Molecular subtyping <sup>3</sup>	~ 1500 bp amplicon ~ 390 bp amplicon (Type A)	~ 1500 bp amplicon ~ 390 bp amplicon (Type A)
<b>OD<sub>260</sub>/OD<sub>280</sub> Ratio</b>	1.7 to 1.9	1.9
<b>Bacterial Inactivation</b> 10% of total yield plated on agar <sup>4</sup>	No viable bacteria detected	No viable bacteria detected

<sup>1</sup>*F. tularensis* subsp. *tularensis*, strain SCHU S4 was deposited by the Centers for Disease Control and Prevention, Division of Vector-Borne Infectious Diseases, Fort Collins, Colorado. The deposited material was prepared by culture of a single colony isolated from the CDC Reference Collection stock. The bacterial preparation used for extraction of genomic DNA was produced by propagation of the CDC deposited material. Genomic DNA was extracted using proprietary technology.

<sup>2</sup>Also consistent with other *F. tularensis* subspecies

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

<sup>4</sup>An extraction procedure was used that has been shown to consistently inactivate 100% of Gram negative bacteria.

**Date:** 24 MAY 2012

**Signature:**



**Title:**

Technical Manager, BEI Authentication or designee

ATCC<sup>®</sup>, 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<sup>®</sup>'s knowledge.

ATCC<sup>®</sup> 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.



