

**Bacillus anthracis, Strain Sterne 34F2 (LLNL A0517)**

**Catalog No. NR-1400**

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**Product Description:**

*Bacillus anthracis* (*B. anthracis*), strain Sterne 34F2 is an aerobic, Gram-positive, spore-forming, rod-shaped *bacillus* that causes the acute infectious disease anthrax. NR-1400 was produced by the inoculation of BEI Resources seed lot 5352324 into Tryptic Soy broth and grown for 1 day at 37°C in an aerobic atmosphere with 5% CO<sub>2</sub>. Broth inoculum was added to Tryptic Soy agar with 5% defibrinated sheep blood kolles, which were grown for 1 day at 37°C in an aerobic atmosphere with 5% CO<sub>2</sub> to produce this lot. Quality control testing was completed under propagation conditions unless otherwise noted.

**Lot: 70073774**

**Manufacturing Date: 30APR2025**

TEST	SPECIFICATIONS	RESULTS
<b>Phenotypic Analysis</b> Cellular morphology Colony morphology  Motility (wet mount) VITEK® MS (MALDI-TOF)	Gram-positive rod Report results  Non-motile <i>Bacillus anthracis</i>	Gram-positive rod Irregular, flat, undulate, opaque and gray (Figure 1) Non-motile <i>Bacillus anthracis</i> (99.9%)
<b>Genotypic Analysis</b> Next-Generation Sequencing (NGS) of Complete Genome <sup>1</sup> Presence of virulent plasmids pXO1 ( <i>aat</i> ) pXO2 ( <i>at, capA, capB, capC</i> )	Not detected Not detected	Not detected Not detected
<b>Purity</b> 7 days at 37°C in an aerobic atmosphere with 5% CO <sub>2</sub> on Tryptic Soy agar with 5% defibrinated sheep blood	Consistent with expected colony morphology	Consistent with expected colony morphology
<b>Viability</b>	Growth	Growth

<sup>1</sup>The whole genome of *B. anthracis*, strain Sterne 34F2 (approximately 5.4 megabase pairs) was sequenced using the Illumina® MiSeq® system and was assembled and analyzed using Kraken version 2.1.3 and Unicycler v0.5.1.

**Figure 1: Colony Morphology**



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