

Certificate of Analysis for NR-28583

Bacillus thuringiensis, Strain BAG10-3

Catalog No. NR-28583

Product Description: Bacillus thuringiensis (B. thuringiensis), strain BAG1O-3 was isolated in 2009 from a soil sample collected in Boston, Massachusetts, USA.

Lot¹: 63817653 Manufacturing Date: 07NOV2015

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis ²		
Cellular morphology	Gram-positive rods	Gram-positive rods
Colony morphology ³	Report results	Circular, flat, entire, rough and gray (Figure 1)
Motility ⁴	Motile	Motile
Hemolysis	Report results	β-hemolytic
Biochemical tests		
Production of acid from trehalose	Positive	Positive
Production of acid from salicin	Report results	Positive
Production of acid from glycerol	Report results	Positive
Nitrate reduction	Report results	Positive
Arginine decarboxylase activity	Report results	Positive
Presence of Virulence Plasmids ⁵		
pXO1 (four targets)	Not present	Not present
pXO2 (three targets)	Not present	Not present
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1420 base pairs)	≥ 99% sequence identity to *B. thuringiensis, strain BAG1O-3 (GenBank: AHCP01000033.1)	99.9% sequence identity to <i>B. thuringiensis</i> , strain BAG1O-3 (GenBank: AHCP01000033.1) ⁶
Purity (post-freeze) ⁷	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
Viability (post-freeze) ³	Growth	Growth

¹The deposited material was passaged on Tryptic Soy broth for 1 day at 30°C in an aerobic atmosphere, and the resulting subculture vialed and frozen. NR-28583 was produced by inoculation of the thawed subculture into Tryptic Soy broth and grown for 1 day at 30°C in an aerobic atmosphere followed by 1 day at room temperature in an aerobic atmosphere. Broth inoculum was added to Tryptic Soy agar with 5% defibrinated sheep blood kolles, which were grown for 1 day at 30°C in an aerobic atmosphere to produce this lot.

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²Presumptive identification of *B. thuringiensis* was performed using phenotypic tests that eliminate other *B. cereus* group (*B. cereus*, *B. thuringiensis* and *B. mycoides*) members.

³1 day at 30°C in an aerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood

⁴Motility test performed on Remel™ Motility Test Medium w/TTC Indicator for 1 day at 30°C in an aerobic atmosphere. In the *B. cereus* group, *B. cereus* and *B. thuringiensis* are motile, whereas *B. anthracis* and *B. mycoides* are non-motile.

⁵Presence of plasmid targets was determined by in silico PCR of the complete genome sequence obtained by BEI Resources.

⁶B. cereus group species cannot be classified based on 16S sequence (Spencer, R. C. "Bacillus anthracis." J. Clin. Pathol. 56 (2003): 182-187. PubMed: 12610093).

Purity of this lot was assessed for 7 days at 30°C in an aerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood.



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Figure 1: Colony Morphology



Date: 25 AUG 2016

Signature:

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