b|e|i RESOURCES

SUPPORTING INFECTIOUS DISEASE RESEARCH

Certificate of Analysis for NR-22159

Bacillus cereus, Strain AND1407

Catalog No. NR-22159

Product Description: *Bacillus cereus (B. cereus),* strain AND1407 was isolated in 2002 from a blackcurrant sample collected in Denmark.

Lot[1]: 63817641 **Manufacturing Date: 21OCT2015**

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[5]	Report results	Negative
Production of acid from glycerol[5]	Report results	Negative
Nitrate reduction	Report results	Positive
Arginine decarboxylase activity	Report results	Negative
Presence of Virulence Plasmids[6]		
pXO1 (four targets)	Not present	Not present
pXO2 (three targets)	Not present	Not present
Genotypic Analysis	≥ 99% sequence identity to *B. cereus,* strain AND1407 (GenBank: AHCM01000055.1)	100% sequence identity to *B. cereus,* strain AND1407 (GenBank: AHCM01000055.1)[7]
Sequencing of 16S ribosomal RNA gene (~ 1430 base pairs)		
Purity (post-freeze)[8]	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
Viability (post-freeze)[3]	Growth	Growth

[1]The deposited material was passaged on Tryptic Soy broth for 1 day at 30°C in an aerobic atmosphere, and the resulting subculture was vialed and frozen. NR-22159 was produced by inoculation of the frozen subculture into Tryptic Soy broth and grown for 1 day at 30°C 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.

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

[3]1 day at 30°C in an aerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood

[4]Motility 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.

[5]Negative tests are observed for >7 days.

[6]Presence of plasmid targets was determined by *in silico* PCR of the complete genome sequence obtained by BEI Resources.

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

[8]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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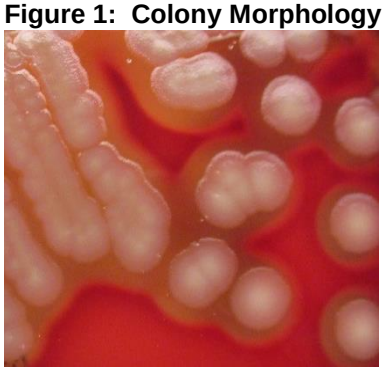
Figure 1: Colony Morphology



Date: 29 AUG 2016 **Signature:**

BEI Resources Authentication

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.

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