SUPPORTING INFECTIOUS DISEASE RESEARCH

Bacillus anthracis, Strain Sterne BA867 (AasbAB)

Catalog No. NR-9995

Product Description: Bacillus anthracis (B. anthracis), strain Sterne BA867 is a markerless, nonpolar, 3583 bp deletion mutant of two petrobactin biosynthetic genes ($\Delta asbAB$) of the toxigenic acapsulate original Sterne strain (34F2).

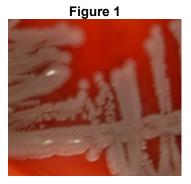
Lot¹: 58394754

Manufacturing Date: 14NOV2008

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-positive rod	Gram-positive rod
Colony morphology ²	Report results	Circular, flat, erose, ground-glass, grey and opaque (Figure 1)
Sporulation	Positive	Positive
Motility	Non-motile	Non-motile
β-hemolysis	Non-hemolytic	Non-hemolytic
Capsule (India ink staining)	Negative	Negative
Tenacious	Positive	Positive
Analytical profile index (API [®] 50 CHB including API [®] 20E; ONPG to GEL only)	Consistent with <i>B. anthracis</i>	Consistent with <i>B. anthracis</i>
Nitrate reduction	Positive	Positive
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1410 base pairs)	Consistent with Bacillus cereus group	Consistent with <i>Bacillus cereus</i> group ³
PCR Assay of Extracted DNA 16S ribosomal RNA gene Presence of virulence plasmids	~ 1500 bp amplicon	~ 1500 bp amplicon
pXO1 (<i>aat</i>)	~ 125 bp amplicon	~ 125 bp amplicon
pXO2 (at, capA, capB, capC)	No amplicons	No amplicons
Viability (post-vialing) ²	Growth	Growth

¹B. anthracis, strain Sterne BA867 (∆asbAB) was deposited by Philip C. Hanna, Associate Professor, Department of Microbiology and Immunology, University of Michigan Medical School, Ann Arbor, Michigan. NR-9995 was produced by inoculation of the deposited material into Tryptic Soy Broth and grown 24 hours at 37°C. Broth inoculum was added to Kolles which were grown 24 hours at 37°C to produce this lot.
²24 hours at 37°C on Tryptic Soy Agar with 5% sheep blood

³Bacillus cereus group species (*B. cereus, B. thuringiensis, B. mycoides,* and *B. anthracis*) cannot be classified based on 16S sequence (Spencer, R. C. "Bacillus anthracis." J. Clin. Pathol. 56 (2003): 182-187. PubMed: 12610093).



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Certificate of Analysis for NR-9995

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Signature: Jack Cuch

Date: 09 MAY 2011

Technical Manager, BEI Authentication or designee

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