

Certificate of Analysis for NR-10355

Bacillus anthracis, Strain Ames35

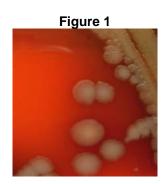
Catalog No. NR-10355

Product Description: *Bacillus anthracis* (*B. anthracis*), strain Ames35 is a derivative of the Ames strain that was treated with novobiocin to cure it of the pXO2 plasmid.

Lot¹: 58485555 Manufacturing Date: 04MAR2008

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-positive rod	Gram-positive rod
Colony morphology ²	Report results	Circular, entire, ground-glass and gray-green (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 B. anthracis	Consistent with B. anthracis
Nitrate reduction	Positive	Positive
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1400 base pairs)	Consistent with Bacillus cereus group	Consistent with Bacillus cereus 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) ⁴	Growth	Growth

B. anthracis, strain Ames35 was deposited by Stephen Leppla, Laboratory of Bacterial Diseases, NIH/NIAID. NR-10355 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. Note: B. anthracis, strain Ames35 should not be cultured more than 24 hours or sporulation defective variants may become enriched.



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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).

⁴24 hours at 37°C in Tryptic Soy Broth



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Date: 13 JUL 2009 **Signature:** Signature on File

Title: Technical Manager, BEI Authentication or designee

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