

**Bacillus atrophaeus, Strain NRS 1221A**

**Catalog No. NR-687**

**Product Description:**

*Bacillus atrophaeus*, strain NRS 1221A was isolated by Elizabeth McCoy and deposited at ATCC® in 1947 by N. R. Smith, Frederick S. Bacon Laboratories in Massachusetts as *Bacillus globigii* “red strain”. It produces L-deoxynojirimycin, an inhibitor of glycosyl hydrolases, and used as a bioindicator in sterilization. NR-687 was produced by inoculation of the deposited material into Tryptic Soy broth and grown for 1 day at 30°C in an aerobic atmosphere. Broth inoculum was added to Tryptic Soy agar kolles, which were grown for 1 day at 30°C in an aerobic atmosphere to produce this lot.

**Lot: 4368567**

**Manufacturing Date: 09JUN2005**

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TEST	SPECIFICATIONS	RESULTS
<b>Phenotypic Analysis</b> Cellular morphology Colony morphology  Motility (wet mount) Hemolysis Analytical profile index (API® 50 CHB)	Gram-positive bacilli Report results  Motile Non-hemolytic Report results	Gram-positive bacilli Colony Type 1: circular, entire, glistening, white or orange, raised and opaque Colony Type 2: circular, rough, white and opaque Motile Non-hemolytic Consistent with <i>Bacillus atrophaeus</i>
<b>Genotypic Analysis</b> Sequencing of 16S ribosomal RNA gene (~ 560 base pairs)	Report results	Consistent with <i>Bacillus atrophaeus</i> group <sup>1</sup>
<b>Viability (post-freeze)</b>	Report results	Growth

<sup>1</sup>*Bacillus atrophaeus* group species (*B. atrophaeus*, *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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10 OCT 2023

Technical Manager or designee, ATCC Federal Solutions

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