Certificate of Analysis for NR-2496

Lysinibacillus sphaericus, Strain Ford 25 (CCM 2177)

Catalog No. NR-2496
(Derived from ATCC® 4525™)

Product Description: *Lysinibacillus sphaericus* (*L. sphaericus*) is a mesophilic, strictly aerobic, spore-forming bacillus. These bacteria metabolize a variety of organic and amino acids but cannot metabolize sugars.

Lot[1]: 4874332 **Manufacturing Date: 18NOV2005**

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis	Consistent with ATCC® 4525™	Consistent with ATCC® 4525™
Cellular morphology	Gram-variable rod	Gram-variable rod
Colony morphology[2]	Report results	Round, small
Sporulation	Positive	Positive
Anaerobic growth	Negative	Negative
Motility	Motile	Motile
β-hemolysis	Report results	Non-hemolytic
Capsule (India ink staining)	Negative	Negative
Tenacious	Negative	Negative
Biochemical tests		
Nitrate	Negative	Negative
Arginine dihydrolase	Negative	Negative
Glycerol	Negative	Negative
Salicin	Negative	Negative
Glycogen	Negative	Negative
Trehalose	Negative	Negative
Nutrient agar with 0.7% sodium bicarbonate	No growth	No growth
FAME analysis	Consistent with *L. sphaericus*	Consistent with *L. sphaericus*
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene (~ 755 bp)	Consistent with *L. sphaericus*	Consistent with *L. sphaericus*[3]
Viability (post-vialing)[2]	Growth	Growth

[1]NR-2496 was produced by propagation of seed stock (BEI Resources NRS-2496) in Nutrient Broth for 24 hours at 30°C and aerobic atmosphere. NRS-2496 was produced by propagation of ATCC® 4525™ (Lot 3449924) in Nutrient Broth for 48 hours at 30°C and aerobic atmosphere.
[2]24 hours at 30°C and aerobic atmosphere on Nutrient Agar.
[3]Also consistent with *Bacillus* species.

Date: 09 NOV 2009 **Signature:** Signature on File

Title: Technical Manager, BEI Authentication or designee

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