

Certificate of Analysis for NR-52264

Lysinibacillus capsici, Strain Ford 25 (CCM 2177)

Catalog No. NR-52264

(Derived from ATCC® 4525™)

Product Description:

Lysinibacillus capsici (L. capsici), strain Ford 25 (CCM 2177) was deposited at ATCC® by Dr. William W. Ford as Bacillus sphaericus. NR-52264 lot 70033115 was produced by inoculation of ATCC® 4525™ lot 62125280 into Nutrient broth and grown for 1 day at 30°C in an aerobic atmosphere. Broth inoculum was added to Nutrient agar kolles, which were grown for 1 day at 30°C in an aerobic atmosphere to produce this lot. Quality control testing was completed under propagation conditions unless otherwise noted.

Lot: 70033115 Manufacturing Date: 06MAR2021

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TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-positive rods	Gram-positive rods
Colony morphology	Report results	Circular, convex, entire, smooth and cream (Figure 1)
Hemolysis 1 day at 30°C in an aerobic atmosphere on	Report results	Non-hemolytic
Tryptic Soy agar with 5% defibrinated sheep blood		
Motility (wet mount)	Report results	Motile
Biochemical tests		
Catalase	Report results	Positive
VITEK® MS (MALDI-TOF)	Lysinibacillus sp.	L. fusiformis (99.9%) ¹
Genotypic Analysis		
Digital DNA-DNA hybridization (dDDH) ²	≥ 70% for species identification	L. capsici (72.9%) ^{3,4}
Sequencing of 16S ribosomal RNA gene	≥ 99% sequence identity to	99.7% sequence identity to
(~ 1470 base pairs)	L. capsici type strain	L. capsici type strain
	(GenBank: PXXX01000046.1)	(GenBank: PXXX01000046.1)
Purity (post-freeze)	Growth consistent with expected	Growth consistent with expected
7 days at 37°C in an aerobic atmosphere with	colony morphology	colony morphology
5% CO ₂ on Nutrient agar		
Viability (post-freeze)	Growth	Growth

¹VITEK[®] MS (MALDI-TOF) database does not contain *L. capsici*. The test was used to confirm genus.

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²Relatedness between bacterial strains has traditionally been determined using DDH. For additional information, refer to Auch, A. F., et al. "Digital DNA-DNA Hybridization for Microbial Species Delineation by Means of Genome-to-Genome Sequence Comparison." <u>Stand. Genomic Sci.</u> 2 (2010): 117-134. PubMed: 21304684. dDDH analysis was performed using the Type (Strain) Genome Server.

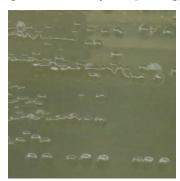
³The whole genome of *L. capsici*, strain Ford 25 (CCM 2177) was sequenced using the Illumina® MiSeq® system. *De novo* contig sequences were generated using Unicycler v0.4.8-beta.

⁴The closest matching type strain is *L. capsici*, strain PB300^T with a dDDH value of 72.9%.



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Figure 1: Colony Morphology



/Heather Couch/ Heather Couch

07 MAY 2021

Program Manager or designee, ATCC Federal Solutions

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