

***Lysinibacillus capsici*, Strain Ford 25 (CCM 2177)**

Catalog No. NR-52264

(Derived from ATCC® 4525™)

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Contributor:

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Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: *Bacillaceae*, *Lysinibacillus*

Species: *Lysinibacillus capsici*

Strain: Ford 25 (CCM 2177)

Original Source: *Lysinibacillus capsici* (*L. capsici*), strain Ford 25 (CCM 2177) was deposited at ATCC® by Dr. William W. Ford as *Bacillus sphaericus*.

Comments: NR-52264 is reported to produce crystalline surface layer proteins. *L. capsici*, strain Ford 25 (CCM 2177) was previously classified as *Lysinibacillus sphaericus*; however, in-house sequencing and digital DNA-DNA Hybridization (dDDH) data has identified this strain as *Lysinibacillus capsici*.

L. capsici is a Gram-positive, spore-forming, motile, strictly aerobic bacilli originally isolated from rhizosphere soil of a pepper plant.¹ It is a member of the *Lysinibacillus* genus, which is characterized by a distinctive peptidoglycan composition of lysine, aspartic acid, alanine and glutamic acid.²

Material Provided:

Each vial contains approximately 0.5 mL of bacterial culture in Nutrient broth supplemented with 10% glycerol.

Note: If homogeneity is required for your intended use, please purify prior to initiating work.

Packaging/Storage:

NR-52264 was packaged aseptically in cryovials. The product is provided frozen and should be stored at -60°C or colder immediately upon arrival. For long-term storage, the vapor phase of a liquid nitrogen freezer is recommended. Freeze-thaw cycles should be avoided.

Growth Conditions:

Media:

Nutrient broth or Tryptic Soy broth or equivalent

Nutrient agar or Tryptic Soy agar or equivalent

Incubation:

Temperature: 30°C

Atmosphere: Aerobic

Propagation:

1. Keep vial frozen until ready for use, then thaw.

2. Transfer the entire thawed aliquot into a single tube of broth.
3. Use several drops of the suspension to inoculate an agar slant and/or plate.
4. Incubate the tube, slant and/or plate at 30°C for 1 day.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: *Lysinibacillus capsici*, Strain Ford 25 (CCM 2177), NR-52264."

Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories. 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see www.cdc.gov/biosafety/publications/bmb15/index.htm.

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References:

1. Burkett-Cadena, M., et al. "*Lysinibacillus capsici* sp. nov, Isolated from the Rhizosphere of a Pepper Plant." Antonie Van Leeuwenhoek 112 (2019): 1161-1167. PubMed: 30820713.
2. Ahmed, I., et al. "Proposal of *Lysinibacillus boronitolerans* gen. nov. sp. nov., and Transfer of *Bacillus fusiformis* to *Lysinibacillus fusiformis* comb. nov. and *Bacillus sphaericus* to *Lysinibacillus sphaericus* comb. nov." Int. J. Syst. Evol. Microbiol. 57 (2007): 1117-1125. PubMed: 17473269.

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