

Bacillus licheniformis, Strain NRS 712

Catalog No. NR-2499

(Derived from ATCC® 9945™)

Product Description: *Bacillus licheniformis* is a Gram-positive, spore-forming, facultative anaerobe that is widely distributed as a saprophytic organism in the environment.

Lot¹: 4874335

Manufacturing Date: 16NOV2005

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology ² Sporulation Anaerobic Growth Motility β-hemolysis Capsule (India ink staining) Tenacious Analytical profile index (API® 50 CHB) Biochemical tests Nitrate Arginine dihydrolase Glycerol Salicin Glycogen Trehalose Nutrient agar with 0.7% sodium bicarbonate FAME analysis	Consistent with ATCC® 9945™ Gram-positive rod Report results Positive Positive Motile Non-hemolytic Positive Report results Consistent with <i>Bacillus licheniformis</i> Positive Positive Positive Positive Positive Positive Growth Consistent with <i>Bacillus licheniformis</i>	Consistent with ATCC® 9945™ Gram-positive rod Round, smooth Positive Positive Motile Non-hemolytic Positive Negative Consistent with <i>Bacillus licheniformis</i> Positive Positive Positive Positive Positive Positive Growth Consistent with <i>Bacillus licheniformis</i>
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 735 bp)	Consistent with <i>Bacillus licheniformis</i>	Consistent with <i>Bacillus licheniformis</i> ³
Viability (post-vialing)²	Growth	Growth

¹NR-2499 was produced by propagation of seed stock (BEI Resources NRS-2499) in Nutrient Broth for 24 hours at 37°C and aerobic atmosphere.

NRS-2499 was produced by propagation of ATCC® 9945™ (Lot 3467258) in Nutrient Broth for 24 hours at 37°C and aerobic atmosphere.

²24 hours at 37°C and aerobic atmosphere on Nutrient Agar.

³Also consistent with other *Bacillus* species.

Date: 02 OCT 2007

Signature: Signature on File

Title: Technical Manager, BEI Authentication or designee

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P.O. Box 4137

Manassas, VA 20108-4137 USA

www.beiresources.org

800-359-7370

Fax: 703-365-2898

E-mail: contact@beiresources.org