**Bacillus licheniformis**, Strain Gibson 46 (NCIB 9375)

**Catalog No. NR-2494**  
(Derived from ATCC® 14580™)

**For research use only. Not for human use.**

**Contributor:**  
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**Product Description:**

**Bacteria Classification:** Bacillaceae, Bacillus  
**Species:** Bacillus licheniformis  
**Type Strain:** Gibson 46 (NCIB 9375, DSM 13)  
**Original Source:** Isolated by Dr. T. Gibson

**Comments:** Bacillus licheniformis (B. licheniformis), strain Gibson 46 was deposited at ATCC® in 1962 by Dr. Ruth E. Gordon, Dr. Ruth E. Gordon, Institute of Microbiology, Rutgers University, New Brunswick, New Jersey. The complete genome of B. licheniformis ATCC® 14580™ has been sequenced (GenBank: CP000002 and AE017333).

B. licheniformis is a Gram-positive, spore-forming, facultative anaerobe that is widely distributed as a saprophytic organism in the environment. It is a common contaminant in raw milk and its spores are highly resistant to pasteurization treatments. In addition, B. licheniformis can cause a variety of infections in humans including meningitis. B. licheniformis is used to manufacture enzymes, antibiotics, and biochemicals.

**Material Provided:**

Each vial contains approximately 0.5 mL of bacterial culture in Nutrient Broth supplemented with 20% glycerol.

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

**Packaging/Storage:**

NR-2494 was packaged aseptically in screw-capped plastic 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  
Nutrient Agar  
**Incubation:**

Temperature: 37°C  
Atmosphere: Aerobic

1. Keep vial frozen until ready for use; thaw slowly.  
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 tubes and plate at 37°C for 24 hours.

**Citation:**

Acknowledgment for publications should read "The following reagent was obtained through the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH: Bacillus licheniformis, Strain Gibson 46 (NCIB 9375), NR-2494."

**Biosafety Level:** 2


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