**Bacillus cereus**, Strain G9241

**Catalog No. NR-9564**

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**Product Description:**

Bacteria Classification: **Bacillaceae, Bacillus**

Species: **Bacillus cereus**

Strain: G9241

Original Source: Isolated from sputum and blood of a welder with life-threatening pneumonia in Louisiana, 1994

Comments: A draft of the complete genome of **Bacillus cereus**, strain G9241 has been completed (GenBank: AAEK000000).

**Bacillus cereus** (*B. cereus*) is a Gram-positive, spore-forming, facultative aerobe. This organism is a ubiquitous opportunistic pathogen that can cause food poisoning in infected individuals. There are two forms of food poisoning that occur. The early onset (emetic) disease is caused by a small, stable dodecadepsipeptide cerulide whereas the late onset (diarrheal) disease is caused by heat-labile enterotoxins.

Genetic and genomic analyses have revealed that the chromosome of *B. cereus* is very similar to *Bacillus anthracis*.

*B. cereus*, strain G9241 contains 2 large plasmids known as pBCXO1 and pBC218. pBCXO1 has significant homology to *B. anthracis* pXO1 and harbors the entire anthrax toxin biosynthetic complex. pBC218 contains genes capable of capsule production, however they are not homologous to the *B. anthracis* capsule genes found on pXO2. *B. cereus*, strain G9241 contains genes that may provide resistance to β-lactam, chloramphenicol, and macrolide antibiotics.

**Material Provided:**

Each vial contains approximately 0.5 mL of bacterial culture in Tryptic Soy Broth supplemented with 10% glycerol.

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

**Packaging/Storage:**

NR-9564 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:**

- Tryptic Soy Broth
- Tryptic Soy Agar

**Incubation:**

- Temperature: 37°C
- Atmosphere: Aerobic

**Propagation:**

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 cereus, Strain G9241, NR-9564.”

**Biosafety Level: 2**


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References:

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