**Klebsiella pneumoniae, Isolate 8**

*Catalog No. NR-15417*

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

**Contributor:**
NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH

**Product Description:**

*Bacteria Classification:* Enterobacteriaceae, Klebsiella

*Species:* Klebsiella pneumoniae

*Comments:* Klebsiella pneumoniae (K. pneumoniae), isolate 8 contains the \( \beta \)-lactamase \( \text{K. pneumoniae} \) carbapenemase (\( \text{bla}_{KPC} \)) gene.

\( K. pneumoniae \) is a Gram-negative enterobacterium that is a major cause of nosocomial infections of the urinary and respiratory tracts. The primary isolates emerging from these settings contain the plasmid-bound \( \text{bla}_{KPC} \) gene conferring specific resistance to the carbapenem class of antibiotics, as well as other \( \beta \)-lactams. Virulence is derived from the complex acidic polysaccharide capsules, which provide protection from phagocytosis, and also give the colonies their characteristic mucoid appearance.

The presence of the \( \text{bla}_{KPC} \) gene in NR-15417 has been confirmed by PCR amplification of a \( \text{bla}_{KPC} \) gene specific sequence from extracted DNA.

**Material Provided:**
Each vial contains approximately 0.5 mL of bacterial culture in 0.5X Tryptic Soy Broth supplemented with 10% glycerol.

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

**Packaging/Storage:**
NR-15417 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 or equivalent
- Tryptic Soy Agar or equivalent

**Incubation:**
- Temperature: 35 to 37°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 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: Klebsiella pneumoniae, Isolate 8, NR-15417.”

**Biosafety Level:** 2


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