**Klebsiella pneumoniae, Strain BIDMC 4**

**Catalog No. NR-41919**

For research use only. Not for human use.

**Contributor:**
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**Manufacturer:**
BEI Resources

**Product Description:**

- **Bacteria Classification:** Enterobacteriaceae, Klebsiella
- **Species:** Klebsiella pneumoniae
- **Strain:** BIDMC 4
- **Original Source:** Klebsiella pneumoniae (K. pneumoniae), strain BIDMC 4 was isolated in 2009 from human abdomen tissue in Boston, Massachusetts, USA.\(^1\)
- **Comments:** K. pneumoniae, strain BIDMC 4 was deposited as a carbapenem-resistant strain and is part of a Carabapenem-Resistant Enterobacteriaceae (CRE) Sequencing Project at the Broad Institute.\(^1,2\) Strain BIDMC 4 was deposited as resistant to ampicillin/sulbactam, ceftazidime, ceftriaxone, ciprofloxacin and meropenem, positive for blakpc-2 and blaTEM-1, MLST sequence type (ST) 258 and capsular polysaccharide (cps) clade II.\(^2\) The complete genome of K. pneumoniae, strain BIDMC 4 has been sequenced (GenBank: JCN100000000).

*K. pneumoniae* is a Gram-negative enterobacterium that is a major cause of nosocomial infections of the urinary and respiratory tracts. Due to the extensive spread of antibiotic-resistant strains, especially of extended-spectrum β-lactamase (ESBL)-producing strains, there has been renewed interest in Klebsiella infections.\(^3\)

**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 purify prior to initiating work.

**Packaging/Storage:**

- NR-41919 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:**
  - Tryptic Soy agar or Tryptic Soy agar with 5% defibrinated sheep blood or Nutrient agar equivalent

  **Incubation:**
  - Temperature: 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 tube, slant and/or plate at 37°C for 1 day.

  **Citation:**
  Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: Klebsiella pneumoniae, Strain BIDMC 4, NR-41919.”

  **Biosafety Level:** 2


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References:
1. Onderdonk, A. B., Personal Communication.

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