**Klebsiella pneumoniae, Strain BIDMC 5**

**Catalog No. NR-41920**

**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 5

**Original Source:** Klebsiella pneumoniae (K. pneumoniae), strain BIDMC 5 was isolated in 2008 from a human blood culture in Boston, Massachusetts, USA.\(^1\)\(^2\)

**Comments:** K. pneumoniae, strain BIDMC 5 was deposited as a carbapenem-resistant strain and is part of a Carbapenem-Resistant Enterobacteriaceae (CRE) Sequencing Project at the Broad Institute.\(^1\)\(^2\) Strain BIDMC 5 was deposited as resistant to amikacin, ampicillin/sulbactam, cefazolin, cefepime, ceftazidime, ceftriaxone, cefuroxime, ciprofloxacin, gentamicin, meropenem, piperacillin/tazobactam, tobramycin and trimethoprim/sulfamethoxazole, positive for blakPC-3 and blatem-1, MLST sequence type (ST) 258 and capsular polysaccharide (cps) clade II.\(^1\)\(^2\) The complete genome of K. pneumoniae, strain BIDMC 5 is available (GenBank: JCMK00000000).

**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 \(\beta\)-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-41920 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 broth or Nutrient broth or equivalent

Tryptic Soy agar or Tryptic Soy agar with 5% defibrinated sheep blood or Nutrient agar or 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 5, NR-41920.”

**Biosafety Level: 2**


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

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