**Klebsiella pneumoniae**, Strain BIDMC 1

**Catalog No. NR-41915**

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 1  
**Original Source:** Klebsiella pneumoniae (K. pneumoniae), strain BIDMC 1 was isolated in 2010 from human toe bone tissue in Boston, Massachusetts, USA.1,2  
**Comments:** K. pneumoniae, strain BIDMC 1 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 1 was deposited as resistant to meropenem, ampicillin/sulbactam, cefepime, cefazidime, ceftriaxone, ciprofloxacin, gentamicin, piperacillin/tazobactam and trimethoprim/sulfamethoxazole, intermediately susceptible to tobramycin, susceptible to amikacin, positive for bla<sub>PO</sub> and MLST sequence type (ST) 258 and capsular polysaccharide (cps) clade II.2 The complete genome of K. pneumoniae, strain BIDMC 1 has been sequenced (GenBank: JCNK00000000). 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-41915 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 1, NR-41915.”

**Biosafety Level:** 2

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see www.cdc.gov/biosafety/publications/bmbl5/index.htm. Disclaimers:

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

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