

SUPPORTING INFECTIOUS DISEASE RESEARCH

Product Information Sheet for NR-41928

Klebsiella pneumoniae, Strain BIDMC 12A

Catalog No. NR-41928

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 12A

<u>Original Source</u>: Klebsiella pneumoniae (K. pneumoniae), strain BIDMC 12A was isolated in 2012 from human sputum in Boston, Massachusetts, USA.¹

Comments: K. pneumoniae, strain BIDMC 12A 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 12A was deposited as resistant to ampicillin/sulbactam, cefepime, meropenem and trimethoprim/sulfamethoxazole, positive for blakpc-3 and blatem-1, MLST sequence type (ST) 258 and capsular polysaccharide (cps) clade II.2 The complete genome of K. pneumoniae, strain BIDMC 12A has been sequenced (GenBank: JCNE000000000).

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.

<u>Note</u>: If homogeneity is required for your intended use, please purify prior to initiating work.

Packaging/Storage:

NR-41928 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.
- Transfer the entire thawed aliquot into a single tube of broth.
- 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 12A, NR-41928."

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.

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References:

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- 1. Onderdonk, A. B., Personal Communication.
- Cerqueira, G. C., et al. "Multi-Institute Analysis of Carbapenem Resistance Reveals Remarkable Diversity, Unexplained Mechanisms, and Clonal Outbreaks." <u>Proc. Natl. Acad. Sci. USA</u> 114 (2017): 1135-1140. PubMed: 28096418.
- Podschun, R. and U. Ullmann. "Klebsiella spp. as Nosocomial Pathogens: Epidemiology, Taxonomy, Typing Methods, and Pathogenicity Factors." Clin. Microbiol. Rev. 11 (1998): 589-603. PubMed: 9767057.

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