

***Klebsiella pneumoniae*, Strain KP-7**

Catalog No. NR-44351

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Contributor:

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Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: *Enterobacteriaceae*, *Klebsiella*

Species: *Klebsiella pneumoniae*

Strain: KP-7

Original Source: *Klebsiella pneumoniae* (*K. pneumoniae*), strain KP-7 was isolated in 2004 from stool of a patient with gastrointestinal tract colonization in Ohio, USA.^{1,2}

Comments: *K. pneumoniae*, strain KP-7 is reported to be a multidrug resistant (MDR) strain.² It was reported as molecular type ST36 and positive for the *K. pneumoniae* carbapenemase gene *bla*_{KPC-3}, as well as positive for the non-extended-spectrum β-lactamase genes *bla*_{SHV-11} and *bla*_{TEM-1}.² *K. pneumoniae*, strain KP-7 is part of the Genome Sequencing Centers for Infectious Diseases contract, and has been sequenced (GenBank: [AQQD000000000](https://www.ncbi.nlm.nih.gov/nuccore/AQQD000000000)).

K. pneumoniae is a Gram-negative enterobacterium that is a major cause of nosocomial infections of the urinary and respiratory tracts.³ 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 Nutrient broth supplemented with 10% glycerol.

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

Packaging/Storage:

NR-44351 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% 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 KP-7, NR-44351.”

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:

1. Bonomo, R. A., Personal Communication.
2. Viau, R. A., et al. "Silent" Dissemination of *Klebsiella pneumoniae* Isolates Bearing *K. pneumoniae* Carbapenemase in a Long-Term Care Facility for Children and Young Adults in Northeast Ohio." Clin. Infect. Dis. 54 (2012): 1314-1321. PubMed: 22492318.
3. 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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