SUPPORTING INFECTIOUS DISEASE RESEARCH

Klebsiella pneumoniae, Strain JHCK1

Catalog No. NR-48976

For research use only. Not for human use.

Contributor:

Marcelo Tolmasky, Ph.D., Professor, Center for Applied Biotechnology Studies, California State University Fullerton, Fullerton, California, USA

Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: Enterobacteriaceae, Klebsiella Species: Klebsiella pneumoniae

Strain: JHCK1

- <u>Original Source</u>: *Klebsiella pneumoniae* (*K. pneumoniae*), strain JHCK1 was isolated in the 1980s from a newborn with meningitis in Buenos Aires, Argentina.¹⁻³
- Comments:K. pneumoniae, strain JHCK1 is a multidrug
resistant (MDR) strain and contains the K. pneumoniae
blaTEM-1 gene, a broad-spectrum β-lactamase.3 The
complete genome sequence of K. pneumoniae, strain
JHCK1 has been sequenced (GenBank:
ANGH00000000).3

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.⁴

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-48976 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. Freezethaw 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

BEI Resources www.beiresources.org 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 JHCK1, NR-48976."

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. <u>Biosafety in Microbiological and Biomedical Laboratories</u>. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

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References:

 Woloj, M., et al. "Plasmid-Encoded Amikacin Resistance in Multiresistant Strains of *Klebsiella pneumoniae* Isolated from Neonates with Meningitis." <u>Antimicrob. Agents</u> **b**|**e**|**i** resources

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- <u>Chemother.</u> 29 (1986): 315-319. PubMed: 3521478.
 Ramirez, M. S., et al. "Multidrug Resistant (MDR) *Klebsiella pneumoniae* Clinical Isolates: A Zone of High Heterogeneity (HHZ) as a Tool for Epidemiological Studies." <u>Clin. Microbiol. Infect.</u> 18 (2012): E254-E258. PubMed: 22551038.
- Xie, G., et al. "Genome Sequences of Two Klebsiella pneumoniae Isolates from Different Geographical Regions, Argentina (Strain JHCK1) and the United States (Strain VA360)." <u>Genome Announc.</u> 1 (2013): e00168-13. PubMed: 23640195.
- Podschun, R. and U. Ullmann. "Klebsiella spp. as Nosocomial Pathogens: Epidemiology, Taxonomy, Typing Methods, and Pathogenicity Factors." <u>Clin.</u> <u>Microbiol. Rev.</u> 11 (1998): 589-603. PubMed: 9767057.

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