

Klebsiella pneumoniae, Strain BWH 2

Catalog No. NR-41897

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Contributor:

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Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: *Enterobacteriaceae*, *Klebsiella*

Species: *Klebsiella pneumoniae*

Strain: BWH 2

Original Source: *Klebsiella pneumoniae* (*K. pneumoniae*), strain BWH 2 was isolated in 2011 from the tissue of the tibial medulla of a human in Boston, Massachusetts, USA.¹

Comments: The complete genome of *K. pneumoniae*, strain BWH 2 has been sequenced (GenBank: [JCNQ00000000](https://www.ncbi.nlm.nih.gov/nuccore/JCNQ00000000)).

K. pneumoniae is a Gram-negative enterobacterium that is a major cause of nosocomial infections of the urinary and respiratory tracts.^{2,3} 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.⁴

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-41897 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 BWH 2, NR-41897."

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 \(BMBL\)](#). 6th ed. Washington, DC: U.S. Government Printing Office, 2020.

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References:

1. Onderdonk, A. B., Personal Communication.
2. 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.
3. Mancuso, G., et al. "Bacterial Antibiotic Resistance: The Most Critical Pathogens." Pathogens. 10 (2021). PubMed: 34684258.
 4. Mulani, M., et al. "Emerging Strategies to Combat ESKAPE Pathogens in the Era of Antimicrobial Resistance: A Review." Front. Microbiol. 10(2019). PubMed: 30988669.

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