

SUPPORTING INFECTIOUS DISEASE RESEARCH

Product Information Sheet for HM-749

Klebsiella pneumoniae pneumoniae, Strain WGLW5

subsp.

Catalog No. HM-749

For research use only. Not for use in humans.

Contributor:

Wendy S. Garrett, M.D., Ph.D., Assistant Professor, and Leslie H. Wardwell, Department of Immunology and Infectious Diseases, Harvard School of Public Health, Boston, Massachusetts, USA

Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: Enterobacteriaceae, Klebsiella Species: Klebsiella pneumoniae subsp. pneumoniae

Strain: WGLW5

Original Source: Klebsiella pneumoniae (K. pneumoniae) subsp. pneumoniae, strain WGLW5 was isolated from a stool sample of a mouse with *T-bet*^{-/-} × *Rag2*^{-/-} ulcerative colitis (TRUC) in Boston, Massachusetts. 1,2

omments: K. pneumoniae subsp. pneumoniae, strain WGLW5 (HMP ID 1308) is a reference genome for The Human Microbiome Project (HMP). HMP is an initiative to Comments: identify and characterize human microbial flora. complete genome of K. pneumoniae subsp. pneumoniae, strain WGLW5 was sequenced at the Broad Institute (GenBank: AMLO00000000).

HMP material is taxonomically classified by the depositor. Quality control of these materials is only performed to demonstrate that the material distributed by BEI Resources is identical to the deposited material.

K. pneumoniae subsp. pneumoniae is a Gram-negative enterobacterium that is a major cause of nosocomial infections of the urinary and respiratory tracts.3 The primary isolates emerging from these settings contain the plasmidbound blakPC gene conferring specific resistance to the carbapenem class of antibiotics, as well as other β lactams.3,4,5 Virulence is derived from the complex acidic polysaccharide capsules, which provide protection from phagocytosis, and also give the colonies their characteristic mucoid appearance.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:

HM-749 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:

Nutrient broth or equivalent Nutrient agar or equivalent

Incubation:

Temperature: 37°C Atmosphere: Aerobic

Propagation:

- Keep vial frozen until ready for use, then thaw.
- 2. Transfer the entire thawed aliquot into a single tube of
- 3. Use several drops of the suspension to inoculate an agar slant and/or plate.
- Incubate the tube, slant and/or plate at 37°C for 1 day. 4.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH as part of the Human Microbiome Project: Klebsiella pneumoniae subsp. pneumoniae, Strain WGLW5, HM-749."

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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Tel: 800-359-7370 Fax: 703-365-2898



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References:

- Garrett, W. S., et al. "Enterobacteriaceae Act in Concert with the Gut Microbiota to Induce Spontaneous and Maternally Transmitted Colitis." <u>Cell Host Microbe</u> 8 (2010): 292-300. PubMed: 20833380.
- 2. Garrett W. S. and Wardwell L. H., Personal Communication.
- Podschun, R. and U. Ullmann. "Klebsiella spp. as Nosocomial Pathogens: Epidemiology, Taxonomy, Typing Methods, and Pathogenicity Factors." <u>Clin.</u> Microbiol. Rev. 11 (1998): 589-603. PubMed: 9767057.
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 4. Endimiani, A., et al. "Characterization of blaκρc-Containing Klebsiella pneumoniae Isolates Detected in Different Institutions in the Eastern U.S.A." J. Antimicrob. Chemother. 63 (2009): 427-437. PubMed: 19155227.
- 5. Rasmussen, B. A. and K. Bush. "Carbapenem-Hydrolyzing β-Lactamases." Antimicrob. Agents Chemother. 41 (1997): 223-232. PubMed: 9021171.
- HMP ID 1308 (K. pneumoniae subsp. pneumoniae, strain WGLW5)

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