Klebsiella pneumoniae, Isolate 2

Catalog No. NR-15411

For research use only. Not for human use.

Contributor and Manufacturer:
BEI Resources

Product Description:
Bacteria: Enterobacteriaceae, Klebsiella
Species: Klebsiella pneumoniae
Comments: Klebsiella pneumoniae (K. pneumoniae), isolate 2 contains the β-lactamase K. pneumoniae carbapenemase (blaKPC) gene.

K. pneumoniae is a Gram-negative enterobacterium that is a major cause of nosocomial infections of the urinary and respiratory tracts.1 The primary isolates emerging from these settings contain the plasmid-bound blaKPC gene conferring specific resistance to the carbapenem class of antibiotics, as well as other β-lactams.1-3 Virulence is derived from the complex acidic polysaccharide capsules, which provide protection from phagocytosis, and also give the colonies their characteristic mucoid appearance.1

The presence of the blaKPC gene in NR-15411 has been confirmed by PCR amplification of a blaKPC gene specific sequence from extracted DNA.

Material Provided:
Each vial contains approximately 0.5 mL of bacterial culture in 0.5X 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-15411 was packaged aseptically, in screw-capped plastic 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 equivalent
Tryptic Soy Agar or equivalent
Incubation:
Temperature: 35 to 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 24 hours.

Citation:
Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: Klebsiella pneumoniae, Isolate 2, NR-15411.”

Biosafety Level: 2

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References:


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