**Klebsiella pneumoniae, Strain MRSN 18411**

**Catalog No. NR-55525**

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**For research use only. Not for use in humans.**

**Contributor:**
Multidrug-Resistant Organism Repository and Surveillance Network (MRSN), Bacterial Disease Branch, Walter Reed Army Institute of Research, Silver Spring, Maryland, USA

**Manufacturer:**
BEI Resources

**Product Description:**

*Bacteria Classification: Enterobacteriaceae, Klebsiella*

*Species: Klebsiella pneumoniae*

*Strain: MRSN 18411*

*Original Source: Klebsiella pneumoniae (K. pneumoniae), strain MRSN 18411 was isolated in 2013 from a human urine sample in North America as part of a global surveillance program.*

*Comments: K. pneumoniae, strain MRSN 18411 was deposited as part of the MRSN Klebsiella pneumoniae Diversity Panel available from BEI Resources as NR-55604. NR-55525 was deposited as multi-locus sequence type (MLST) ST 2202, K-locus type (KL) 14, O-locus type (OL) O3b and VIR score 0. MRSN 18411 was deposited as a non-multidrug-resistant strain, sensitive to amikacin, aztreonam, cefepime, ceftazidime, ceftriaxone, ceftolozane/tazobactam, ceftriaxone, ceftolozane/tazobactam, ciprofloxacin, ertapenem, gentamicin, imipenem, levofloxacin, meropenem, piperacillin/tazobactam, tigecycline, tobramycin and trimethoprim/sulfamethoxazole and intermediately resistant to ampicillin/sulbactam and tetracycline. Strain MRSN 18411 is reported to have one beta-lactamase gene (*bla*<sub>SHV-1</sub>; conferring resistance to beta-lactams) and one fosfomycin resistance gene (*fosA*<sub>gen</sub>; conferring resistance to fosfomycin). The complete genome of *K. pneumoniae*, strain MRSN 18411 has been sequenced (GenBank: JAGYEH0000000000).

*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 beta-lactamase (ESBL)-producing strains, there has been renewed interest in *Klebsiella* infections.

**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-55525 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 Tryptic Soy broth or equivalent

Nutrient agar or Tryptic Soy agar or Tryptic Soy agar with 5% defibrinated sheep blood 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 MRSN 18411, NR-55525. This strain is part of the Klebsiella pneumoniae Diversity Panel provided by the Multidrug-Resistant Organism Repository and Surveillance Network (MRSN) at the Walter Reed Army Institute of Research (WRAIR).”

**Biosafety Level: 2**


**Disclaimers:**

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References:

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