**Klebsiella pneumoniae, Strain MRSN 25947**

**Catalog No. NR-55535**

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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 25947

*Original Source:* Klebsiella pneumoniae (K. pneumoniae), strain MRSN 25947 was isolated in 2014 from a human wound sample in North America as part of a global surveillance program.¹

*Comments:* K. pneumoniae, strain MRSN 25947 was deposited as part of the MRSN Klebsiella pneumoniae Diversity Panel available from BEI Resources as NR-55604. NR-55535 was deposited as multi-locus sequence type (MLST) ST 5447, K-locus type (KL) 30, O-locus type (OL) O3b and VIR score 0. MRSN 25947 was deposited as a susceptible strain, sensitive to amikacin, ampicillin/sulbactam, aztreonam, cefepime, ceftazidime, ceftriaxone, ciprofloxacin, ertapenem, gentamicin, imipenem, levofloxacin, meropenem, piperacillin/tazobactam, tigecycline, tobramycin, tetracycline and trimethoprim/sulfamethoxazole. Strain MRSN 25947 is reported to have one beta-lactamase gene (blaSHV-11; conferring resistance to beta-lactams) and two fosfomycin resistance genes (fosA_gen and fosA7.3; conferring resistance to fosfomycin).¹ The complete genome of *K. pneumoniae*, strain MRSN 25947 has been sequenced (GenBank: JAHQW0000000000).

*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.²³⁴

**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-55535 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:*

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<thead>
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<th>Temperature: 37°C</th>
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<td>Atmosphere: Aerobic</td>
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**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 25947, NR-55535. 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**


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References:

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