**Klebsiella pneumoniae**, Strain MRSN 380979

**Catalog No. NR-55551**
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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 380979

**Original Source:** Klebsiella pneumoniae (K. pneumoniae), strain MRSN 380979 was isolated in 2016 from a human urine sample in North America as part of a global surveillance program.¹

**Comments:** K. pneumoniae, strain MRSN 380979 was deposited as part of the MRSN Klebsiella pneumoniae Diversity Panel available from BEI Resources as NR-55604. NR-55551 was deposited as multi-locus sequence type (MLST) ST 134, K-locus type (KL) 25, O-locus type (OL) O5 and VIR score 0. MRSN 380979 was deposited as a susceptible strain, sensitive to amikacin, ampicillin/sulbactam, aztreonam, cefepime, cefotaxime, ceftriaxone, ciprofloxacin, ceftazidime/avibactam, ceftolozane/tazobactam, ertapenem, gentamicin, imipenem, levofloxacin, meropenem, piperacillin/tazobactam, tobramycin, tetracycline, tigecycline and trimethoprim/sulfamethoxazole. Strain MRSN 380979 is reported to have one beta-lactamase gene (blaSHV-6) and one fosfomycin resistance gene (fosA4, fosA5; conferring resistance to fosfomycin). ³ The complete genome of K. pneumoniae, strain MRSN 380979 has been sequenced (GenBank: JAGYD100000000).

**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.² ³ 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-55551 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

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 380979, NR-55551. 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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