**Klebsiella pneumoniae**, Strain MRSN 28880

**Catalog No. NR-55541**

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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 28880

**Original Source:** Klebsiella pneumoniae (K. pneumoniae), strain MRSN 28880 was isolated in 2014 from a human urine sample in North America as part of a global surveillance program.¹

**Comments:** K. pneumoniae, strain MRSN 28880 was deposited as part of the MRSN Klebsiella pneumoniae Diversity Panel available from BEI Resources as NR-55604. NR-55541 was deposited as multi-locus sequence type (MLST) ST 36, K-locus type (KL) 27, O-locus type (OL) O2v2, VIR score 1 and yersiniabactin gene allele (ybt) ybt 14; ICEKp5. MRSN 28880 was deposited as a susceptible strain, sensitive to amikacin, ampicillin/sulbactam, aztreonam, cefepime, cefazidime, ceftazidime/avibactam, cefotolozane/tazobactam, ceftriaxone, ciprofloxacin, ertapenem, gentamicin, imipenem, levofloxacin, meropenem, piperacillin/tazobactam, ticarcicine, tobramycin, tetracycline and trimethoprim/sulfamethoxazole. Strain MRSN 28880 is reported to have one beta-lactamase gene (blaSHV-11; conferring resistance to beta-lactams) and one fosfomycin resistance gene (fosA5; conferring resistance to fosfomycin).¹ The complete genome of K. pneumoniae, strain MRSN 28880 has been sequenced (GenBank: JAGYDS000000000).

**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-55541 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

**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 28880, NR-55541. 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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