**Klebsiella pneumoniae, Strain MRSN 676980**

Catalog No. NR-55587
This reagent is the tangible property of the U.S. Government.

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 676980
Original Source: Klebsiella pneumoniae (K. pneumoniae), strain MRSN 676980 was isolated in 2019 from a human urine sample in North America as part of a global surveillance program.1
Comments: K. pneumoniae, strain MRSN 676980 was deposited as part of the MRSN Klebsiella pneumoniae Diversity Panel available from BEI Resources as NR-55604. NR-55587 was deposited as multi-locus sequence type (MLST) ST 198, K-locus type (KL) 30, O-locus type (OL) O1v1 and VLR score 0. MRSN 676980 was deposited as a susceptible strain, sensitive to amikacin, ampicillin/sulbactam, aztreonam, cefepime, cefazidime, ceftriaxone, ciprofloxacin, ceftazidime/avibactam, cefotolozane/tazobactam, ertapenem, gentamicin, imipenem, levofloxacin, meropenem, piperacillin/tazobactam, tobramycin, tetracycline, ticarcillin and trimethoprim/sulfamethoxazole. Strain MRSN 676980 is reported to have one beta-lactamase gene (blaSHV-7; conferring resistance to beta-lactams) and one fosfomycin resistance gene (fosa_gen; conferring resistance to fosfomycin).1 The complete genome of K. pneumoniae, strain MRSN 676980 has been sequenced (GenBank: JAGYBY000000000).

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-55587 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 676980, NR-55587. 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)."5

Biosafety Level: 2

Disclaimers:
You are authorized to use this product for research use only. It is not intended for human use.

Use of this product is subject to the terms and conditions of the BEI Resources Material Transfer Agreement (MTA). The MTA is available on our Web site at www.beiresources.org.

While BEI Resources uses reasonable efforts to include accurate and up-to-date information on this product sheet, neither ATCC® nor the U.S. Government makes any warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. Neither ATCC® nor the U.S. Government warrants that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, use and disposal. ATCC® and the U.S. Government are not liable for any damages or injuries.
arising from receipt and/or use of this product. While reasonable effort is made to ensure authenticity and reliability of materials on deposit, the U.S. Government, ATCC®, their suppliers and contributors to BEI Resources are not liable for damages arising from the misidentification or misrepresentation of products.

Use Restrictions:
This material is distributed for internal research, non-commercial purposes only. This material, its product or its derivatives may not be distributed to third parties. Except as performed under a U.S. Government contract, individuals contemplating commercial use of the material, its products or its derivatives must contact the contributor to determine if a license is required. U.S. Government contractors may need a license before first commercial sale.

References:

ATCC® is a trademark of the American Type Culture Collection.