**Acinetobacter baumannii, Strain MRSN 15075**

**Catalog No. NR-52196**
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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: *Moraxellaceae, Acinetobacter*
Species: *Acinetobacter baumannii*
Strain: MRSN 15075

**Original Source:** *Acinetobacter baumannii* (A. baumannii), strain MRSN 15075 was isolated in 2003 from a human wound in the United States as part of a global surveillance program.¹,²

**Comments:** *A. baumannii*, strain MRSN 15075 was deposited as part of the MRSN *Acinetobacter baumannii* Diversity Panel available from BEI Resources as NR-52248. NR-52196 was deposited as multi-locus sequence type (MLST) ST 464 and sensitive to amikacin, ampicillin/sulbactam, cefepime, ciprofloxacin, colistin, imipenem, levofloxacin, meropenem, tetracycline, tobramycin and trimethoprim/sulfamethoxazole, intermediately resistant to ceftriaxone and gentamicin and resistant to ceftazidime.¹ Strain MRSN 15075 is reported to have two beta-lactamase genes (*blaADC-25* and *blaOXA-94*; conferring resistance to beta-lactams).¹ The complete genome of *A. baumannii*, strain MRSN 15075 is available (GenBank: VHGU00000000).

*A. baumannii* is an aerobic, Gram-negative bacillus that exhibits the ability to rapidly develop antibiotic resistance and is a major cause of hospital-acquired infection.³ The genomes of multidrug resistant strains of *A. baumannii* contain resistance "islands" that can contain up to 45 resistance genes. Acquisition of these antibiotic resistance genes occurs through genetic exchange of plasmids, transposons and integrons with *Pseudomonas*, *Salmonella* and *Escherichia* species.⁴,⁵

**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-52196 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: Acinetobacter baumannii, Strain MRSN 15075, NR-52196. This strain is part of the Acinetobacter baumannii 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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