**Product Information Sheet for NR-52241**

**Acinetobacter baumannii, Strain MRSN 351162**

**Catalog No. NR-52241**
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: Moraxellaceae, Acinetobacter*

*Species: Acinetobacter baumannii*

*Strain: MRSN 351162*

*Original Source: Acinetobacter baumannii (A. baumannii), strain MRSN 351162 was isolated in 2011 from a human sample in Europe as part of a global surveillance program.*

**Comments:**
A. baumannii, strain MRSN 351162 was deposited as part of the MRSN *Acinetobacter baumannii* Diversity Panel available from BEI Resources as NR-52248. NR-52241 was deposited as multi-locus sequence type (MLST) ST 412, sensitive to amikacin, ampicillin/sublactam, cefepime, ceftazidime, ceftriaxone, ciprofloxacin, colistin, imipenem, levofloxacin, meropenem, tetracycline tobramycin and trimethoprim/sulfamethoxazole and intermediately resistant to gentamicin. Strain MRSN 351162 is reported to have two beta-lactamase genes (*blaADC-25* and *blaOXA-528*; conferring resistance to beta-lactams). The complete genome of *A. baumannii*, strain MRSN 351162 is available (GenBank: VHEX00000000).

*Acinetobacter 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. 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.

**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-52241 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 351162, NR-52241. 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


**Disclaimers:**
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References:

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