**Pseudomonas aeruginosa, Strain 1082670**

**Catalog No. NR-56653**

For research use only. Not for use in humans.

**Contributor and Manufacturer:**

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**Product Description:**

*Bacteria Classification:* Pseudomonadaceae, Pseudomonas

*Species:* Pseudomonas aeruginosa

*Strain:* 1082670

*Original Source:* Pseudomonas aeruginosa (P. aeruginosa), strain 1082670 was isolated in 2014 from an endotracheal aspirate sample of an 83-year-old female in Thailand.

*Comments:* P. aeruginosa, strain 1082670 was deposited as part of the Global Priority Superbugs Collection. NR-56653 was deposited as resistant to amikacin, aztreonam, cefepime, ceftazidime, ceftazidime/avibactam, ciprofloxacin, doripenem, imipenem, levofloxacin, meropenem and piperacillin/tazobactam.

*P. aeruginosa* is a Gram-negative, aerobic, rod-shaped bacterium with unipolar motility that thrives in many diverse environments including soil, water and certain eukaryotic hosts. It is a key emerging opportunistic pathogen in animals, including humans, and plants. While it rarely infects healthy individuals, *P. aeruginosa* causes severe acute and chronic nosocomial infections in immunocompromised or catheterized patients, especially in patients with cystic fibrosis, burns, cancer or HIV.1,2,3 Infections of this type are often highly antibiotic-resistant, difficult to eradicate and often lead to death. The ability of *P. aeruginosa* to survive on minimal nutritional requirements, tolerate a variety of physical conditions and rapidly develop resistance during the course of therapy has allowed it to persist in both community and hospital settings.3,4

**Material Provided:**

Each vial contains approximately 0.3 mL of bacterial culture in Tryptic Soy broth supplemented with 10% glycerol. If homogeneity is required for your intended use, please purify prior to initiating work.

**Packaging/Storage:**

NR-56653 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:*
- Tryptic Soy broth or Brain Heart Infusion broth or Nutrient broth or equivalent
- Tryptic Soy agar with 5% defibrinated sheep blood or Brain Heart Infusion agar or Nutrient agar 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: *Pseudomonas aeruginosa*, Strain 1082670, NR-56653.”

**Biosafety Level:** 2


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References:

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