**Pseudomonas aeruginosa**, Strain Pa1414

**Catalog No. NR-51345**

For research use only. Not for human use.

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**Manufacturer:**
BEI Resources

**Product Description:**

Bacteria Classification: Pseudomonadaceae, Pseudomonas Species: Pseudomonas aeruginosa

Strain: Pa1414

Original Source: Pseudomonas aeruginosa (P. aeruginosa), strain Pa1414 was isolated from a blood sample taken from a patient with septicemia.1,2

**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.3-5 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.5,6

**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-51345 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 Pa1414, NR-51345.”

**Biosafety Level:**

2


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References:
1. Davidson, A., Personal Communication.

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