Pseudomonas aeruginosa, Strain 846484

Catalog No. NR-56666

For research use only. Not for use in humans.

Contributor and Manufacturer: ATCC®

Product Description:
Bacteria Classification: Pseudomonadaceae, Pseudomonas
Species: Pseudomonas aeruginosa
Strain: 846484

Original Source: Pseudomonas aeruginosa (P. aeruginosa), strain 846484 was isolated in 2012 from an unknown sample of a 40-year-old female in Mexico.
Comments: P. aeruginosa, strain 846484 was deposited as part of the Global Priority Superbugs Collection. NR-56666 was deposited as resistant to amikacin, aztreonam, 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. 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.

Material Provided:
Each vial contains approximately 0.3 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-56666 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 846484, NR-56666.”

Biosafety Level: 2


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References:

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