Certificate of Analysis for NR-51337

Pseudomonas aeruginosa, Strain PAK

Catalog No. NR-51337

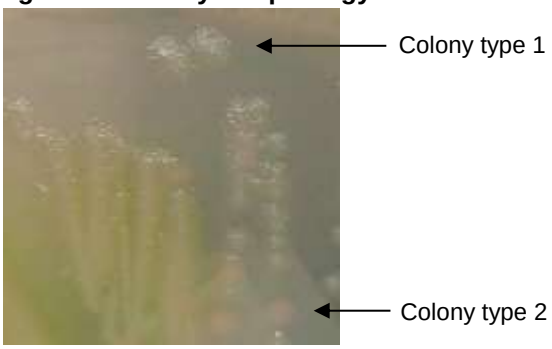
Product Description: *Pseudomonas aeruginosa (P. aeruginosa)*, strain PAK was isolated from a human with cystic fibrosis.

Lot[1]: 70017416 **Manufacturing Date: 25JUL2018**

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-negative rods	Gram-negative rods
Colony morphologies[2,3]	Report results	Colony type 1: Circular, flat, undulate, rough and green (Figure 1) Colony type 2: Circular, flat, undulate, rough and cream (Figure 1)
Motility (wet mount)	Report results	Motile
VITEK® MS (MALDI-TOF)	*P. aeruginosa*	*P. aeruginosa* (99.9%)
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene (~ 1480 base pairs)	≥ 99% sequence identity to *P. aeruginosa,* strain PAK (GenBank: CP020659.1)	100% sequence identity to *P. aeruginosa* strain PAK (GenBank: CP020659.1)[4]
Purity (post-freeze)[5]	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
Viability (post-freeze)[2]	Growth	Growth

[1]NR-51337 was produced by inoculation of BEI Resources HMC-653 lot 59773821 into Tryptic Soy broth and grown for 1 day at 37°C in an aerobic atmosphere. Broth inoculum was added to Tryptic Soy agar kolles, which were grown for 1 day at 37°C in an aerobic atmosphere to produce this lot.
[2]1 day at 37°C in an aerobic atmosphere on Tryptic Soy agar
[3]Two colony types were observed. Plating of the individual colony types showed that they did not revert to the mixed colony type. VITEK® MS (MALDI-TOF) analysis identified cells from both colony types as *P. aeruginosa*. The 16S ribosomal RNA gene of each colony type was sequenced and found to have 100% sequence identity to the other colony type and to *P. aeruginosa,* strain PAK (GenBank: CP020659).
[4]Also consistent with other *Pseudomonas* species
[5]Purity of this lot was assessed for 7 days at 37°C in an aerobic atmosphere with 5% CO_2 on Tryptic Soy agar.

Figure 1: Colony Morphology



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/Heather Couch/
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Program Manager or designee, ATCC Federal Solutions

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