

***Burkholderia cenocepacia*, Strain K56-2 (Valvano)**

**Catalog No. NR-20535**

**Product Description:** *Burkholderia cenocepacia* (*B. cenocepacia*), strain K56-2 (Valvano) was isolated prior to 1986 from sputum from a patient with cystic fibrosis in Toronto, Ontario, Canada.

**Lot<sup>1</sup>: 64073466**

**Manufacturing Date: 02MAR2016**

| TEST  | SPECIFICATIONS  | RESULTS  |
|---|---|--|
| <b>Phenotypic Analysis</b><br>Cellular morphology <sup>2</sup><br>Colony morphology <sup>2</sup><br><br>Motility (wet mount)<br>Biolog (GEN III MicroPlate™)  | Report results<br>Report results<br><br>Report results<br><i>Burkholderia cenocepacia</i>   | Gram-negative rods<br>Circular, convex, entire, smooth and gray (Figure 1)<br>Motile<br><i>Burkholderia</i> sp. <sup>3</sup>   |
| <b>Genotypic Analysis</b><br>Sequencing of 16S ribosomal RNA gene (~ 1430 base pairs)<br><br>Analysis of <i>recA</i> gene from NR-20535 with Bcc <sup>5</sup><br><i>B. cenocepacia</i><br><i>B. cepacia</i><br><i>B. multivorans</i><br><i>B. stabilis</i><br><i>B. vietnamiensis</i> | ≥ 99% sequence identity to <i>B. cenocepacia</i> , strain K56-2 (Valvano) (GenBank: ALJA02000017.1)<br><br>Report results<br>Report results<br>Report results<br>Report results | 99.9% sequence identity to <i>B. cenocepacia</i> , strain K56-2 (Valvano) (GenBank: ALJA02000017.1) <sup>4</sup><br><br>98% similarity to <i>B. cenocepacia</i><br>65% similarity to <i>B. cepacia</i><br>60% similarity to <i>B. multivorans</i><br>62% similarity to <i>B. stabilis</i><br>38% similarity to <i>B. vietnamiensis</i> |
| <b>Purity (post-freeze)<sup>6</sup></b>   | Growth consistent with expected colony morphology   | Growth consistent with expected colony morphology  |
| <b>Viability (post-freeze)<sup>2</sup></b>  | Growth  | Growth   |

<sup>1</sup>NR-20535 was produced by inoculation of the deposited material into Tryptic Soy broth and grown 1 day at 37°C in an aerobic atmosphere with 5% CO<sub>2</sub>. Broth inoculum was added to Tryptic Soy agar with 5% defibrinated sheep blood agar kolles and grown 1 day at 37°C in an aerobic atmosphere with 5% CO<sub>2</sub>.

<sup>2</sup>1 day at 37°C in an aerobic atmosphere with 5% CO<sub>2</sub> on Tryptic Soy agar with 5% defibrinated sheep blood

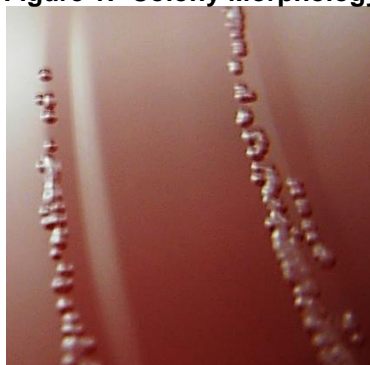
<sup>3</sup>*Burkholderia* species identified were *B. contaminans* (SIM 0.603), *B. pyrocinia/cepacia* (SIM 0.155), *B. vietnamiensis* (SIM 0.138), and *B. anthina/caribensis* (SIM 0.043).

<sup>4</sup>Also consistent with other *Burkholderia* species.

<sup>5</sup>Based on a developmental *recA* nucleotide-based identification method for members of the *Burkholderia cepacia* complex (Bcc) (refer to Payne, G. W., et al. "Development of a *recA* Gene-Based Identification Approach for the Entire *Burkholderia* Genus." *Appl. Environ. Microbiol.* 71 (2005): 3917-3927. PubMed: 16000805.).

<sup>6</sup>Purity of this lot was assessed for 7 days at 37°C in an aerobic atmosphere with 5% CO<sub>2</sub> on Tryptic Soy agar with 5% defibrinated sheep blood

**Figure 1: Colony Morphology**



## Certificate of Analysis for NR-20535

**Date:** 03 FEB 2017

**Signature:**



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