

## Certificate of Analysis

**Product Name:** P. putida ATCC 49128 PK/5  
**Lot Number:** 168871

**Product Number:** R4607074  
**Expiration Date:** 2026-03-18  
(YYYY-MM-DD)

This product has been manufactured, processed and packaged in accordance with Quality Systems Regulation, 21 CFR Part 820. Representative samples were tested per Remel Inc., a part of Thermo Fisher Scientific Quality Control specifications and were found to meet performance criteria for this product.

### Purity:

Standardized aliquots of the rehydrated product are inoculated onto nonselective media and examined for pure growth following the appropriate incubation. Selective and Differential media are also tested where applicable.

### Viability And Quantification:

Each organism is recovered from the preserved state within the required time frame and at an acceptable level. Passage number is stated as the current preserved state.

### Macroscopic And Microscopic Morphology:

Colony morphology is consistent with documented referenced description.  
Traditional staining is performed.

### Characterization:

Organism exhibits characteristic biochemical, enzymatic, genotypical and/or biochemical reactions. Automated and/or conventional testing was performed and results were within established limits. Antimicrobial testing performed where applicable. Results within expected ranges.

CFU/loop: >10(4)

Gram Reaction: Gram Negative Rod

Passage: 4

Identification Profile: MicroSEQ® or Vitek® 2

Appearance: Preserved Gel Matrix suspended in inoculating loop

pH: N/A

## Certificate of Analysis

Signed



Quality Assurance Manager

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