

Acinetobacter sp., Strain Ag2

Catalog No. NR-50122

Product Description: *Acinetobacter* sp., strain Ag2 was isolated in 2014 from the midgut of a mosquito (*Anopheles gambiae*, strain G3) in Las Cruces, New Mexico. NR-50122 was deposited as *Acinetobacter* sp., however, digital DNA-DNA hybridization analysis suggests that this organism may be *Acinetobacter bereziniae* (*A. bereziniae*).

Lot¹: 64360360

Manufacturing Date: 22JUN2016

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology ² Growth at 44°C on Tryptic Soy agar with 5% defibrinated sheep blood Motility (wet mount) Biochemical tests: Catalase Oxidase VITEK [®] 2 Compact (GN Card) VITEK [®] MS (MALDI-TOF)	Gram-negative rods Report results Report results Report results Positive Negative <i>Acinetobacter</i> sp. (≥ 95%) <i>Acinetobacter</i> sp.	Gram-negative rods Circular, low convex, entire, smooth and gray (Figure 1) No growth Non-motile ³ Positive Negative <i>A. lwoffii</i> (99%) ⁴ <i>A. baumannii</i> complex (77.7%)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 870 base pairs) Digital DNA-DNA hybridization (dDDH) ⁶	≥ 99% sequence identity to <i>Acinetobacter</i> sp., strain Ag2 (GenBank: LBNA01000008.1) > 70% for species identification	99.6% sequence identity to <i>Acinetobacter</i> sp., strain Ag2 (GenBank: LBNA01000008.1) ⁵ <i>A. bereziniae</i> (84.3%)
Purity (post-freeze)⁷	Consistent with expected colony morphology	Consistent with expected colony morphology
Viability (post-freeze)²	Growth	Growth

¹NR-50122 was produced by inoculation of the deposited material into Tryptic Soy broth and grown for 1 day at 37°C in an aerobic atmosphere. Broth inoculum was added to Tryptic Soy agar with 5% defibrinated sheep blood kolles, which were grown for 1 day at 37°C in an aerobic atmosphere to produce this lot.

²1 day on Tryptic Soy agar with 5% defibrinated sheep blood at 37°C in an aerobic atmosphere

³Motility test performed on BBL™ Motility Test Medium w/TTC Indicator for 7 days at 37°C in an aerobic atmosphere with 5% CO₂

⁴Percent probabilities above 90% indicate a close match to the typical biochemical pattern for the given organism. For additional information, please refer to O'Hara, C.M. and J. M. Miller. "Evaluation of the VITEK 2 ID-GNB Assay for Identification of Members of the Family Enterobacteriaceae and Other Nonenteric Gram-Negative Bacilli and Comparison with the VITEK GNI+ Card." *J. Clin. Microbiol.* 41 (2003): 2096-2101. PubMed: 12734254.

⁵Also consistent with other *Acinetobacter* spp. 99.7% sequence identity to *A. bereziniae* type strain (GenBank: NR_117625.1)

⁶Relatedness between bacterial strains has traditionally been determined using DDH. For additional information refer to Auch, A.F., et al. "Digital DNA-DNA Hybridization for Microbial Species Delineation by Means of Genome-to-Genome Sequence Comparison." *Stand Genomic Sci.* 2 (2010): 117-134, PubMed: 21304684.

⁷Purity of this lot was assessed for 8 days on Tryptic Soy agar with 5% defibrinated sheep blood at 37°C in an aerobic atmosphere.

Figure 1: Colony Morphology



Date: 21 SEP 2016

Signature:

BEI Resources Authentication

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

ATCC® is a trademark of the American Type Culture Collection.

You are authorized to use this product for research use only. It is not intended for human use.

