SUPPORTING INFECTIOUS DISEASE RESEARCH

Gardnerella vaginalis, Strain AMD

Catalog No. NR-50514

Product Description: Gardnerella vaginalis (G. vaginalis), strain AMD was isolated in December 2011 from a vaginal swab collected from a woman with bacterial vaginosis in Richmond, Virginia, USA.

Lot¹: 70004539

Manufacturing Date: 12MAY2017

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology ³ Motility (wet mount) VITEK [®] 2 (GP card) VITEK [®] 2 (NH card)	Report results ² Report results Report results \geq 90% probability of <i>G. vaginalis</i> \geq 90% probability of <i>G. vaginalis</i>	Gram-negative rods Punctiform and gray (Figure 1) Motile ⁴ <i>G. vaginalis</i> (95%) ⁵ <i>G. vaginalis</i> (94%) ⁵
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 710 base pairs)	≥ 99% sequence identity to <i>G. vaginalis</i> , strain AMD (GenBank: ADAM01000004.1)	100% sequence identity to <i>G. vaginalis</i> , strain AMD (GenBank: ADAM01000004.1)
Purity ⁶	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
Viability (post-freeze) ³	Growth	Growth

¹NR-50514 was produced by inoculation of the deposited material into New York City III (NYC III) broth and incubated for 2 days at 37°C in an aerobic atmosphere with 5% CO₂. The material from the initial growth was passaged once in NYC III broth for 2 days at 37°C in an aerobic atmosphere with 5% CO₂ to produce this lot.

²G. vaginalis is often described as a Gram-variable organism but has a thin, Gram-positive cell wall. For more information, please refer to Harper, J. J. and G. H. G. Davis. "Cell Wall Analysis of *Gardnerella vaginalis* (Haemophilus vaginalis)." Int. J. Syst. Bacteriol. 32 (1982): 48-50.

³2 days at 37°C in an aerobic atmosphere with 5% CO₂ on Chocolate agar

⁴G. vaginalis is a non-motile organism. However, it has been reported that fresh clinical isolates are piliated and therefore, may have limited motility. Wet mount observations could not be confirmed as *G. vaginalis*, strain AMD failed to grow in motile media. For more information, please refer to Harwich, M. D., Jr., et al. "Drawing the Line Between Commensal and Pathogenic *Gardnerella vaginalis* Through Genome Analysis and Virulence Studies." <u>BMC Genomics</u> 11 (2010): 375. PubMed: 20540756.

⁵Percent probabilities above 90% indicate a close match to the typical biochemical pattern for the given organism, with a percent probability of 99% being a perfect match between the test reaction pattern and the unique biochemical pattern of the given organism or organism group. 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.

⁶Purity of this lot was assessed for 7 days at 37°C in aerobic atmosphere with 5% CO₂ on Tryptic Soy agar with 5% defibrinated sheep blood.

Figure 1: Colony Morphology



Certificate of Analysis for NR-50514

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RESOURCES

Date: 27 SEP 2017

bei

Signature:

BEI Resources Authentication

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