

***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. NR-50514 lot 70053554 was produced by inoculation of BEI Resources seed lot 70004540 into NYC III broth and incubated for 4 days at 37°C in an anaerobic atmosphere (< 5% O₂; Remel™ Pack-Anaero™). The material from the initial growth was passaged once in NYC III broth for 4 days at 37°C in an anaerobic atmosphere to produce this lot.

Lot: 70053554
Manufacturing Date: 21JUN2022

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphologies ² 3 days at 37°C in an anaerobic atmosphere on Chocolate agar Motility (wet mount) VITEK® 2 (GP card) VITEK® 2 (NH card) VITEK® MS (MALDI-TOF)	Gram-negative rods ¹ Report results Report results <i>G. vaginalis</i> (≥ 90%) <i>G. vaginalis</i> (≥ 90%) <i>G. vaginalis</i>	Gram-negative rods Colony Type 1: Circular, convex, entire, smooth, gray and small (Figure 1) Colony Type 2: Circular, convex, entire, smooth, gray and large (Figure 1) Motile ³ <i>G. vaginalis</i> (98%) <i>G. vaginalis</i> (94%) <i>G. vaginalis</i> (99.9%)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1420 base pairs)	≥ 99% sequence identity to <i>G. vaginalis</i> , strain AMD (GenBank: ADAM01000004.1)	99.7% sequence identity to <i>G. vaginalis</i> , strain AMD (GenBank: ADAM01000004.1) ⁴
Purity (post-freeze) Anaerobic 7 days at 37°C on Tryptic Soy agar with 5% defibrinated sheep blood Aerobic with 5% CO ₂ 7 days at 37°C on Tryptic Soy agar with 5% defibrinated sheep blood	Growth consistent with expected colony morphology Growth consistent with expected colony morphology	Growth consistent with expected colony morphology Growth consistent with expected colony morphology
Viability (post-freeze) 3 days at 37°C in an anaerobic atmosphere on Chocolate agar	Growth	Growth

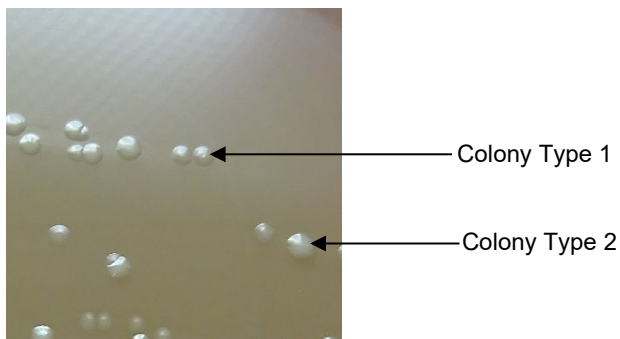
¹*G. vaginalis* is often described as a Gram-variable organism but has a thin, Gram-positive cell wall [see Harper, J. J. and G. H. G. Davis. "Cell Wall Analysis of *Gardnerella vaginalis* (*Haemophilus vaginalis*).² Int. J. Syst. Bacteriol. 32 (1982): 48-50].

²Small and large colony types were observed. Plating of the small colony type showed that it reverted to the mixed colony types; however, the large colony type maintained its size. VITEK® MS (MALDI-TOF), VITEK® GP and VITEK® NH analyses identified cells from both colony types as *G. vaginalis*.

³*G. vaginalis* is a non-motile organism. However, it has been reported that fresh clinical isolates are piliated and therefore, may have limited motility. 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." BMC Genomics 11 (2010): 375. PubMed: 20540756. MALDI-TOF analysis was performed and confirmed the identity as *G. vaginalis*.

⁴Also consistent with other *Gardnerella* species.

Figure 1: Colony Morphology



/Sonia Bjorum Brower/

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Technical Manager or designee, ATCC Federal Solutions

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