

***Veillonella atypica*, Strain CMW7756B**

**Catalog No. HM-1301**

**Product Description:** *Veillonella atypica* (*V. atypica*), strain CMW7756B is a vaginal isolate obtained in 2014 from a pregnant woman in St. Louis, Missouri, USA.

**Lot<sup>1,2</sup>: 70006652**

**Manufacturing Date: 11JUL2017**

TEST	SPECIFICATIONS	RESULTS
<b>Phenotypic Analysis</b> Cellular morphology Colony morphology <sup>3</sup>  Motility (wet mount) VITEK® MS (MALDI-TOF)	Gram-negative cocci Report results  Report results <i>V. atypica</i>	Gram-negative cocci Circular, low convex, entire and translucent (Figure 1) Non-motile <i>Veillonella</i> sp. <sup>4</sup>
<b>Genotypic Analysis</b> Sequencing of 16S ribosomal RNA gene (~ 740 base pairs)	≥ 99% sequence identity to <i>V. atypica</i> , strain CMW7756B (GenBank: LRQT01000022.1)	99.9% sequence identity to <i>V. atypica</i> , strain CMW7756B (GenBank: LRQT01000022.1)
<b>Purity (post-freeze)</b> Anaerobic growth <sup>5</sup>  Aerobic growth <sup>6</sup>	Consistent with expected colony morphology No growth	Consistent with expected colony morphology No growth
<b>Viability (post-freeze)<sup>3</sup></b>	Growth	Growth

<sup>1</sup>Quality control of HMP material is only performed to demonstrate that the material distributed by BEI Resources is identical to the deposited material. It should not be considered a complete characterization of the deposited organism.

<sup>2</sup>*V. atypica*, strain CMW7756B was deposited by Amanda Lewis, Ph.D., Assistant Professor, Department of Molecular Microbiology, Washington University School of Medicine, St. Louis, Missouri, USA. HM-1301 was produced by inoculation of the deposited material into NYC III broth. Broth inoculum was used to inoculate NYC III agar, which was grown for 2 days at 37°C in an anaerobic atmosphere (< 5% O<sub>2</sub>; Remel™ Pack-Anaero™). The material from the initial growth was passaged once on NYC III agar for 2 days at 37°C in an anaerobic atmosphere. Colonies from the plate were suspended in NYC III broth and used to inoculate NYC III agar and broth, which were grown for 4 days at 37°C in an anaerobic atmosphere. The growths were combined and suspended in fresh NY III broth to produce this lot.

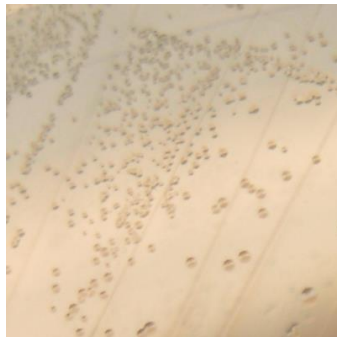
<sup>3</sup>2 days at 37°C in an anaerobic atmosphere on NYC III agar

<sup>4</sup>MALDI-TOF MS identifies HM-1301 as *Veillonella* at the genus level and as *V. parvula* (99.9%) at the species level. The identification of *Veillonella* spp. as *V. parvula* by MALDI-TOF has previously been reported. Sequencing of the 16S ribosomal RNA gene can differentiate *V. atypica* and *V. parvula* and is the preferred method to distinguish between these species. For more information please refer to Justesen, U. S., et al. "Species Identification of Clinical Isolates of Anaerobic Bacteria: A Comparison of Two Matrix-Assisted Laser Desorption Ionization-Time of Flight Mass Spectrometry Systems." *J. Clin. Microbiol.* 49 (2011): 4314-4318. PubMed: 21998433 and Marchandin, H., et al. "Intra-Chromosomal Heterogeneity Between the Four 16S rRNA Gene Copies in the Genus *Veillonella*: Implications for Phylogeny and Taxonomy." *Microbiology* 149 (2003): 1493-1501. PubMed: 12777489.

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

<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**



**Date:** 08 NOV 2017

**Signature:**



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