

***Peptoniphilus* sp., Strain CMW7756A**

**Catalog No. HM-1297**

**Product Description:** *Peptoniphilus* sp., strain CMW7756A is a vaginal isolate obtained in 2014 from a pregnant woman in St. Louis, Missouri, USA. [HM-1297 was deposited to BEI Resources as *Peptoniphilus harei*, however, digital DNA-DNA hybridization (dDDH) analysis, performed at BEI Resources, could not confirm the species-level classification.]

**Lot<sup>1,2</sup>: 70006890**

**Manufacturing Date: 21AUG2017**

TEST	SPECIFICATIONS	RESULTS
<b>Phenotypic Analysis</b> Cellular morphology Colony morphology <sup>3</sup>  Motility (wet mount) VITEK <sup>®</sup> MS (MALDI-TOF)	Gram-positive cocci Report results  Report results <i>Peptoniphilus</i> sp.	Gram-positive cocci Circular, convex, entire, translucent and white (Figure 1) Non-motile <i>Peptoniphilus asaccharolyticus</i> (99.9%)
<b>Genotypic Analysis</b> Sequencing of 16S ribosomal RNA gene (~ 890 base pairs)  Digital DNA-DNA hybridization (dDDH) <sup>5</sup>	≥ 99% sequence identity to <i>Peptoniphilus</i> sp., strain CMW7756A (GenBank: LRQE01000014.1) ≥ 70% for species identification	99.9% sequence identity to <i>Peptoniphilus</i> sp., strain CMW7756A (GenBank: LRQE01000014.1) <sup>4</sup> <i>Peptoniphilus asaccharolyticus</i> (29.5%) <i>Peptoniphilus harei</i> (72.2%) <sup>6</sup>
<b>Purity (post-freeze)</b> Anaerobic growth <sup>7</sup>  Aerobic growth <sup>8</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>*Peptoniphilus* sp., strain CMW7756A was deposited by Amanda Lewis, Ph.D., Assistant Professor, Department of Molecular Microbiology, Washington University School of Medicine, St. Louis, Missouri, USA. HM-1297 was produced by inoculation of the deposited material into Modified Reinforced Clostridial broth and incubated for 2 days at 37°C in an anaerobic atmosphere (< 0.5% O<sub>2</sub>; Remel™ AnaeroPack-Anaero™). The material from the initial growth was passaged once in Modified Reinforced Clostridial broth for 2 days at 37°C in an anaerobic atmosphere to produce this lot.

<sup>3</sup>2 days at 37°C in an anaerobic atmosphere on Brucella agar with hemin (5 µg/mL) and vitamin K1 (10 µg/mL) supplemented with 5% defibrinated sheep blood

<sup>4</sup>The whole genome sequence for *Peptoniphilus* sp., strain CMW7756A was deposited into GenBank under *Peptoniphilus harei*, strain CMW7756A. dDDH analysis, performed at BEI Resources, could not confirm the species-level classification.

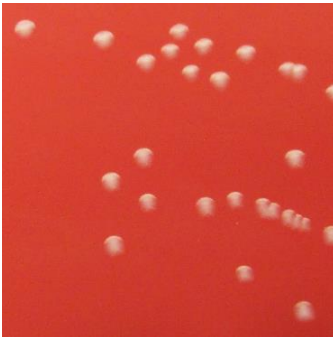
<sup>5</sup>Relatedness between bacterial strains has traditionally been determined using DDH. For additional information refer to Auch, A. F., et al. "Digital DNA-DNA Hybridization for Microbial Species Delineation by Means of Genome-to-Genome Sequence Comparison." *Stand Genomic Sci.* 2 (2010): 117-134. PubMed: 21304684.

<sup>6</sup>The required whole genome sequence for the type strain of this species is not available. *Peptoniphilus harei*, strain ACS-146-V-Sch2b (GenBank: [AENP00000000.1](https://www.ncbi.nlm.nih.gov/nuclot/AENP00000000.1)) was used for dDDH analysis.

<sup>7</sup>Purity of this lot was assessed for 8 days at 37°C in an anaerobic atmosphere on Brucella agar with hemin (5 µg/mL) and vitamin K1 (10 µg/mL) supplemented with 5% defibrinated sheep blood.

<sup>8</sup>Purity of this lot was assessed for 8 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: 29 NOV 2017

Signature:



BEI Resources Authentication

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