

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

**Catalog No. HM-1297**

**For research use only. Not for human use.**

**Contributor:**

Amanda Lewis, Ph.D., Assistant Professor, Department of Molecular Microbiology, Washington University School of Medicine, St. Louis, Missouri, USA

**Manufacturer:**

BEI Resources

**Product Description:**

**Bacteria Classification:** *Peptoniphilaceae*, *Peptoniphilus*<sup>1</sup>

**Species:** *Peptoniphilus* sp. [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.]<sup>2</sup>

**Strain:** CMW7756A

**Original Source:** *Peptoniphilus* sp., strain CMW7756A is a vaginal isolate obtained in 2014 from a pregnant woman in St. Louis, Missouri, USA.<sup>2,3</sup>

**Comments:** *Peptoniphilus* sp., strain CMW7756A (HMP ID 3229) is a reference genome for [The Human Microbiome Project](#) (HMP). HMP is an initiative to identify and characterize human microbial flora. The complete genome of *Peptoniphilus* sp., strain CMW7756A was sequenced at the Genome Institute at [Washington University](#) (GenBank: [LRQE00000000](#)).

**Note:** HMP material is taxonomically classified by the depositor. Quality control of these materials is only performed to demonstrate that the material distributed by BEI Resources is identical to the deposited material.

*Peptoniphilus* species are generally non-motile, non-sporulating, obligately anaerobic, Gram-positive cocci that are part of the commensal flora of humans and animals.<sup>4,5</sup> They belong to the Gram-positive anaerobic cocci (GPAC) commonly associated with a variety of human infections, particularly in patients with skin or soft-tissue sores, ulcers or abscesses.<sup>5,6</sup>

**Material Provided:**

Each vial contains approximately 0.5 mL of bacterial culture in Modified Reinforced Clostridial broth supplemented with 10% glycerol.

**Note:** If homogeneity is required for your intended use, please purify prior to initiating work.

**Packaging/Storage:**

HM-1297 was packaged aseptically in cryovials. The product is provided frozen and should be stored at -60°C or colder immediately upon arrival. For long-term storage, the vapor phase of a liquid nitrogen freezer is recommended. Freeze-thaw cycles should be avoided.

**Growth Conditions:**

**Media:**

Modified Reinforced Clostridial broth or Columbia broth with hemin and vitamin K1<sup>1</sup> or equivalent

Tryptic Soy agar with 5% defibrinated sheep blood or Brucella agar with hemin (5 µg/mL) and vitamin K1 (10 µg/mL) supplemented with 5% defibrinated sheep blood or Columbia agar with hemin and vitamin K1 supplemented with 5% defibrinated sheep blood<sup>1</sup> or equivalent

**Incubation:**

Temperature: 37°C

Atmosphere: Anaerobic

**Propagation:**

1. Keep vial frozen until ready for use, then thaw.
2. Transfer the entire thawed aliquot into a single tube of broth.
3. Use several drops of the suspension to inoculate an agar slant and/or plate.
4. Incubate the tube, slant and/or plate at 37°C for 2 to 3 days.

**Citation:**

Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH as part of the Human Microbiome Project: *Peptoniphilus* sp., Strain CMW7756A, HM-1297.”

**Biosafety Level: 2**

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. [Biosafety in Microbiological and Biomedical Laboratories](#). 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see [www.cdc.gov/biosafety/publications/bmbl5/index.htm](http://www.cdc.gov/biosafety/publications/bmbl5/index.htm).

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**References:**

1. Johnson, C. N., et al. "*Peptoniphilus stercorisuis* sp. nov., Isolated from a Swine Manure Storage Tank and Description of *Peptoniphilaceae* fam. nov." Int. J. Syst. Evol. Microbiol. 64 (2014): 3538-3545. PubMed: 25056296.
2. Lewis, A., Personal Communication.
3. [HMP ID 3229](#) (*Peptoniphilus* sp., strain CMW7756A)
4. Ezaki, T., et al. "Proposal of the Genera *Anaerococcus* gen. nov., *Peptoniphilus* gen. nov. and *Gallicola* gen. nov. for Members of the Genus *Peptostreptococcus*." Int. J. Syst. Evol. Microbiol. 51 (2001): 1521-1528. PubMed: 11491354.
5. Brown, K., et al. "Bloodstream Infections Due to *Peptoniphilus* spp.: Report of 15 Cases." Clin. Microbiol. Infect. 20 (2014): O857-O860. PubMed: 24773457.
6. Murphy, E. C. and I.-M. Frick. "Gram-positive Anaerobic Cocci--Commensals and Opportunistic Pathogens." FEMS Microbiol. Rev. 37 (2013): 520-553. PubMed: 23030831.

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