Product Information Sheet for HM-1296

Streptococcus sp., Strain CMW7705B

Catalog No. HM-1296

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: *Streptococcaceae, Streptococcus*

Species: *Streptococcus* sp. [HM-1296 was deposited to BEI Resources as *Streptococcus mitis*, however, digital DNA-DNA hybridization (dDDH) analysis, performed at BEI Resources, could not confirm the species-level classification.][1]

Strain: CMW7705B

Original Source: *Streptococcus* sp., strain CMW7705B is a vaginal isolate obtained in 2014 from a pregnant woman in St. Louis, Missouri, USA.[1,2]

Comments: *Streptococcus* sp., strain CMW7705B (HMP ID 3228) 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 *Streptococcus* sp., strain CMW7705B was sequenced at the Genome Institute at Washington University (GenBank: LRQR00000000).

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.

Streptococcus species are non-sporulating, Gram-positive cocci often part of the normal commensal flora of the human mouth, skin, intestine and upper respiratory tract.[3] A few *Streptococcus* species are pathogenic and responsible for many cases of meningitis, bacterial pneumonia, endocarditis and necrotizing fasciitis.[4,5]

Material Provided:

Each vial contains approximately 0.5 mL of bacterial culture in Tryptic Soy broth supplemented with 10% glycerol.

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

Packaging/Storage:

HM-1296 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:

Tryptic Soy broth or Brain Heart Infusion broth or equivalent

Tryptic Soy agar with 5% defibrinated sheep blood or Brain Heart Infusion agar 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[1] or equivalent

Incubation:

Temperature: 37°C

Atmosphere: Anaerobic or aerobic with or without 5% CO_2

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: *Streptococcus* sp., Strain CMW7705B, HM-1296."

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.

Disclaimers:

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References:

1. Lewis, A., Personal Communication.
2. HMP ID 3228 (*Streptococcus* sp., strain CMW7705B)
3. Hardie, J. M. and R. A. Whiley. "Classification and Overview of the Genera *Streptococcus* and *Enterococcus*." Soc. Appl. Bacteriol. Symp. Ser. 83 (1997): 1S-11S. PubMed: 9436312.
4. Musser, J. M. and S. A. Shelburne III. "A Decade of Molecular Pathogenomic Analysis of Group A *Streptococcus*." J. Clin. Invest. 119 (2009): 2455-2463. PubMed: 19729843.
5. Nobbs, A. H., R. J. Lamont and H. F. Jenkinson. "*Streptococcus* Adherence and Colonization." Microbiol. Mol. Biol. Rev. 73 (2009): 407-450. PubMed: 19721085.

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E-mail: contact@beiresources.org
Tel: 800-359-7370
Fax: 703-365-2898