Streptococcus sp., Strain BS29a

Catalog No. HM-887

For research use only. Not for human use.

Contributor:
Maria V. Sizova, Ph.D., Department of Biology, Northeastern University, Boston, Massachusetts, USA

Manufacturer:
BEI Resources

Product Description:
Bacteria Classification: *Streptococcaceae, Streptococcus*
Species: *Streptococcus* sp.
Strain: BS29a
Original Source: *Streptococcus* sp., strain BS29a is a human dental plaque isolate.[1,2]
Comments: *Streptococcus* sp., strain BS29a (HMP ID 1513) 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 BS29a was sequenced at the J. Craig Venter Institute (GenBank: AZYV00000000).
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-887 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 equivalent

Incubation:
Temperature: 37°C
Atmosphere: Aerobic with 5% CO_2 or 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 24 to 72 hours.

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 BS29a, HM-887."

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.

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www.beiresources.org

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

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References:
1. Sizova, M. V., et al. "New Approaches for Isolation of Previously Uncultivated Oral Bacteria." Appl. Environ. Microbiol. 78 (2012): 194-203. PubMed: 22057871.
2. HMP ID 1513 (*Streptococcus* sp., strain BS29a)
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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