

***Streptococcus gallolyticus* subsp. *gallolyticus*, Strain TX20005**

Catalog No. HM-272

For research use only. Not for use in humans.

Contributor:

Sarah K. Highlander, Associate Professor, Department of Molecular Virology and Microbiology, Baylor College of Medicine, Houston, Texas, USA

Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: *Streptococcaceae*, *Streptococcus*

Species: *Streptococcus gallolyticus*

Subspecies: *Streptococcus gallolyticus* subsp. *gallolyticus*¹

Strain: TX20005

Original Source: *Streptococcus gallolyticus* (*S. gallolyticus*) subsp. *gallolyticus*, strain TX20005 was isolated from a human heart.²

Comments: *S. gallolyticus* subsp. *gallolyticus*, strain TX20005 (HMP ID 9352) 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 *S. gallolyticus* subsp. *gallolyticus*, strain TX20005 was sequenced by the Human Genome Sequencing Center at [Baylor College of Medicine](#) (GenBank: [AEEM00000000](#)).

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.

S. gallolyticus subsp. *gallolyticus* is a non-motile, non-sporulating, Gram-positive coccus that is often isolated from marsupial and mammal feces. Most *S. gallolyticus* subsp. *gallolyticus* strains that have been isolated from humans have been obtained from blood or feces. These strains are often responsible for endocarditis associated with colonic cancer.^{1,3}

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-272 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:

Brain Heart Infusion broth or Tryptic Soy broth or equivalent
Brain Heart Infusion agar or Tryptic Soy agar with 5% sheep blood or equivalent

Incubation:

Temperature: 37°C

Atmosphere: Aerobic (Note: Growth may be enhanced in the presence of 5% CO₂)

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 1 day.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH as part of the Human Microbiome Project: *Streptococcus gallolyticus* subsp. *gallolyticus*, Strain TX20005, HM-272."

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. 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

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References:

1. Schlegel, L., et al. "Reappraisal of the Taxonomy of the *Streptococcus bovis*/*Streptococcus equinus* Complex and Related Species: Description of *Streptococcus gallolyticus* subsp. *gallolyticus* subsp. nov., *S. gallolyticus* subsp. *macedonicus* subsp. nov. and *S. gallolyticus* subsp. *pasteurianus* subsp. nov." *Int. J. Syst. Evol. Microbiol.* 53 (2003): 631-645. PubMed: 12807180.
2. [HMP ID 9352](#) (*S. gallolyticus* subsp. *gallolyticus*, strain TX20005)
3. Sillanpää, J., et al. "A Collagen-Binding Adhesin, Acb, and Ten Other Putative MSCRAMM and Pilus Family Proteins of *Streptococcus gallolyticus* subsp. *gallolyticus* (*Streptococcus bovis* Group, Biotype I)." *J. Bacteriol.* 191 (2009): 6643-6653. PubMed: 19717590.

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