

SUPPORTING INFECTIOUS DISEASE RESEARCH

Product Information Sheet for HM-959

Enterococcus faecium, Strain 513

Catalog No. HM-959

For research use only. Not for human use.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: Enterococcaceae, Enterococcus

Species: Enterococcus faecium

Strain: 513 (also referred to as strain 2740305)1

<u>Original Source</u>: *Enterococcus faecium (E. faecium)*, strain 513 is a human isolate from the United States. 1,2

<u>Comments</u>: E. faecium, strain 513 (<u>HMP ID 1353</u>) is a reference genome for <u>The Human Microbiome Project</u> (HMP). HMP is an initiative to identify and characterize human microbial flora. The complete genome of *E. faecium*, strain 513 was sequenced by the Genome Institute at <u>Washington University</u> (GenBank: <u>AMBG000000000</u>).

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.

E. faecium is a Gram-positive, facultative anaerobic coccus that is a commensal inhabitant of the gastrointestinal tract of both humans and animals.^{3,4} *E. faecium* is an emerging and challenging nosocomial pathogen due to its inherent hardiness and ability to develop antibiotic resistance.^{4,5}

Material Provided:

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

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

Packaging/Storage:

HM-959 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 equivalent

Incubation:

Temperature: 37°C Atmosphere: Aerobic

Propagation:

- 1. Keep vial frozen until ready for use, then thaw.
- Transfer the entire thawed aliquot into a single tube of broth
- Use several drops of the suspension to inoculate an agar slant and/or plate.
- 4. Incubate tube, slant and/or plate 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: *Enterococcus faecium*, Strain 513, HM-959."

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. Arias, C. A., Personal Communication.
- 2. HMP ID 1353 (Enterococcus faecium, strain 513)
- 3. Schleifer, K. H. and R. Kilpper-Bälz. "Transfer of Streptococcus faecalis and Streptococcus faecium to the Genus Enterococcus nom. rev. as Enterococcus faecalis comb. nov. and Enterococcus faecium comb. nov." Int. J. Syst. Bacteriol. 34 (1984): 31-34.
- Arias, C. A. and B. E. Murray. "The Rise of the Enterococcus: Beyond Vancomycin Resistance." Nat. Rev. Microbiol. 10 (2012): 266-278. PubMed: 22421879.
- Lam, M. M., et al. "Comparative Analysis of the First Complete Enterococcus faecium Genome." <u>J. Bacteriol.</u> 194 (2012): 2334-2341. PubMed: 22366422.

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