

# Product Information Sheet for HM-952

## *Enterococcus faecium*, Strain 503

### Catalog No. HM-952

### 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:** 503 (also referred to as strain 1137055)<sup>1</sup>

**Original Source:** *Enterococcus faecium* (*E. faecium*), strain 503 is a human isolate from the United States.<sup>1</sup>

**Comments:** *E. faecium*, strain 503 ([HMP ID 1346](#)) 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 *E. faecium*, strain 503 was sequenced by the Genome Institute at [Washington University](#) (GenBank: [AMB000000000](#)).

**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.<sup>2,3</sup> *E. faecium* is an emerging and challenging nosocomial pathogen due to its inherent hardiness and ability to develop antibiotic resistance.<sup>3</sup>

#### 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-952 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:

**Note:** Specific growth conditions are reported on the Certificate of Analysis for each lot.

#### Media:

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

#### Incubation:

Temperature: 35 to 37°C

Atmosphere: Aerobic (with or without 5% CO<sub>2</sub>) 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 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 503, HM-952."

#### 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).

#### Disclaimers:

You are authorized to use this product for research use only. It is not intended for human use.

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### References:

1. Arias, C. A., Personal Communication.
2. 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.
3. Arias, C. A. and B. E. Murray. "The Rise of the *Enterococcus*: Beyond Vancomycin Resistance." Nat. Rev. Microbiol. 10 (2012): 266-278. PubMed: 22421879.
4. [HMP ID 1346](#) (*Enterococcus faecium*, strain 503)
5. Lam, M. M., et al. "Comparative Analysis of the First Complete *Enterococcus faecium* Genome." J. Bacteriol. 194 (2012): 2334-2341. PubMed: 22366422.

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