SUPPORTING INFECTIOUS DISEASE RESEARCH

## Enterococcus faecalis, Strain B3336

## Catalog No. NR-31887

## For research use only. Not for use in humans.

## Contributor:

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### Manufacturer:

**BEI Resources** 

## **Product Description:**

Bacteria Classification: Enterococcaceae, Enterococcus Species: Enterococcus faecalis

Strain: B3336 (also referred to as EnGen0212)

- <u>Original Source</u>: *Enterococcus faecalis (E. faecalis*), strain B3336 is an infectious clinical isolate collected from human blood in 1987 in the United States.<sup>1</sup>
- <u>Comments</u>: *E. faecalis*, strain B3336 is reported to show highlevel resistance to gentamicin.<sup>1</sup> The complete genome of *E. faecalis*, strain B3336 has been sequenced (GenBank: <u>AIRJ00000000</u>).

*E. faecalis* is a Gram-positive, facultatively anaerobic coccus that is a commensal inhabitant of the gastrointestinal and female genital tract.<sup>2</sup> It is also the most frequently isolated species, often as a monoinfection, from root canals of endodontically treated teeth with persistent apical periodontitis.<sup>3</sup> *E. faecalis* is an opportunistic pathogen and has become a serious concern in hospitals because of its inherent hardiness and high levels of antibiotic resistance.<sup>4</sup> Virulent strains often express a cytolysin toxin that is encoded on various mobile genetic elements, pathogenicity islands and conjugative plasmids.<sup>5</sup>

### **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:

NR-31887 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 or Tryptic Soy agar with 5% defibrinated sheep blood or Brain Heart Infusion agar or equivalent Incubation:

# Temperature: 37°C

Atmosphere: Aerobic (with or without 5% CO<sub>2</sub>) or anaerobic <u>Propagation</u>:

- 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 for 1 day.

### Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: *Enterococcus faecalis*, Strain B3336, NR-31887."

### **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. <u>Biosafety in Microbiological and Biomedical Laboratories (BMBL)</u>. 6th ed. Washington, DC: U.S. Government Printing Office, 2020.

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## **References:**

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- Stevens, R. H., O. D. Porras and A. L. Delisle. "Bacteriophages Induced from Lysogenic Root Canal Isolates of *Enterococcus faecalis.*" <u>Oral Microbiol.</u> <u>Immunol.</u> 24 (2009): 278-284. PubMed: 19572888.
- Arias, C. A. and B. E. Murray. "The Rise of the *Enterococcus*: Beyond Vancomycin Resistance." <u>Nat.</u> <u>Rev. Microbiol.</u> 10 (2012): 266-278. PubMed: 22421879.
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- Huycke, M. M., C. A. Spiegel, and M. S. Gilmore. "Bacteremia Caused by Hemolytic, High-Level Gentamicin-Resistant *Enterococcus faecalis.*" <u>Antimicrob. Agents Chemother.</u> 35 (1991): 1626-1634. PubMed: 1929336.

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