

# **Product Information Sheet for NR-31979**

### Enterococcus faecalis, Strain V587

## Catalog No. NR-31979

## For research use only. Not for human use.

#### Contributor:

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#### Manufacturer:

**BEI Resources** 

### **Product Description:**

Bacteria Classification: Enterococcaceae, Enterococcus

Species: Enterococcus faecalis

Strain: V587 (also referred to as EnGen0242)

Original Source: Enterococcus faecalis (E. faecalis), strain V587 was recovered in a urine specimen collected on February 26, 1987, at Barnes Hospital, St. Louis, Missouri, USA.<sup>1,2</sup>

<u>Comments</u>: *E. faecalis*, strain V587 has shown resistance to vancomycin.<sup>1,2</sup> The complete genome of *E. faecalis*, strain V587 has been sequenced (GenBank: <u>AJBB000000000</u>).

*E. faecalis* is a Gram-positive, facultatively anaerobic coccus that is a commensal inhabitant of the gastrointestinal and female genital tract.<sup>3</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>4</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>5</sup> Virulent strains often express a cytolysin toxin that is encoded on various mobile genetic elements, pathogenicity islands, and conjugative plasmids.<sup>6</sup>

### **Material Provided:**

Each vial contains approximately 0.5 mL of bacterial culture in Tryptic Soy broth supplemented with 10% glycerol. Each vial of NR-31979 lot 70009682 contains approximately 0.5 mL of bacterial culture in Brain Heart Infusion 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-31979 was packaged aseptically, in screw-capped plastic 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:**

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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 Propagation:

- 1. Keep vial frozen until ready for use, then thaw.
- 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: *Enterococcus faecalis*, Strain V587, NR-31979."

### 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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NR-31979 03JAN2018



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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> Rev. Microbiol. 10 (2012): 266-278. PubMed: 22421879.
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NR-31979 03JAN2018