

SUPPORTING INFECTIOUS DISEASE RESEARCH

# **Product Information Sheet for NR-31884**

## Enterococcus faecalis, Strain B3119

## Catalog No. NR-31884

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

#### Contributor:

Michael S. Gilmore, Sir William Osler Professor of Ophthalmology. Department Ophthalmology, of Massachusetts Eye and Ear Infirmary, Boston, Massachusetts, USA

### Manufacturer:

**BEI Resources** 

## **Product Description:**

Bacteria Classification: Enterococcaceae, Enterococcus

Species: Enterococcus faecalis

Strain: B3119 (also referred to as EnGen0209)

Original Source: Enterococcus faecalis (E. faecalis), strain B3119 was isolated in the USA from human blood in 1987 by Mark Huycke.1

Comments: E. faecalis, strain B3119 was deposited as a hemolytic, cytolytic isolate with resistance to gentamicin.<sup>1</sup> The complete genome of *E. faecalis*, strain B3119 has been sequenced (GenBank: AIRF00000000).

E. faecalis is a Gram-positive, facultatively anaerobic coccus that is a commensal inhabitant of the gastrointestinal and female genital tract.2 It is also the most frequently isolated species, often as a monoinfection, from root canals of endodontically treated teeth with persistent apical periodontitis.3 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.4 Virulent strains often express a cytolysin toxin that is encoded on various mobile genetic elements, pathogenicity islands, and conjugative plasmids.5

## **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:

NR-31884 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:**

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

Propagation:

- Keep vial frozen until ready for use, then thaw.
- 2. Transfer the entire thawed aliquot into a single tube of
- 3. Use several drops of the suspension to inoculate an agar slant and/or plate.
- 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 B3119, NR-31884."

## **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:

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

Use of this product is subject to the terms and conditions of the BEI Resources Material Transfer Agreement (MTA). The MTA is available on our Web site at www.beiresources.org.

While BEI Resources uses reasonable efforts to include accurate and up-to-date information on this product sheet, neither ATCC® nor the U.S. Government makes any warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. Neither  ${\sf ATCC}^{\$}$  nor the U.S. Government warrants that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, use and disposal. ATCC® and the U.S. Government are not liable for any damages or injuries arising from receipt and/or use of this product. reasonable effort is made to ensure authenticity and reliability of materials on deposit, the U.S. Government, ATCC®, their suppliers and contributors to BEI Resources are not liable for misidentification damages arising from the misrepresentation of products.

#### Use Restrictions:

This material is distributed for internal research, noncommercial purposes only. This material, its product or its derivatives may not be distributed to third parties. Except as performed under a U.S. Government contract, individuals contemplating commercial use of the material, its products or its derivatives must contact the contributor to determine if a

**BEI Resources** www.beiresources.org

E-mail: contact@beiresources.org

Tel: 800-359-7370 Fax: 703-365-2898

NR-31884 07APR2017



# **Product Information Sheet for NR-31884**

license is required. U.S. Government contractors may need a license before first commercial sale.

#### References:

- 1. Gilmore, M. S., Personal Communication.
- 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. Stevens, R. H., O. D. Porras and A. L. Delisle. "Bacteriophages Induced from Lysogenic Root Canal Isolates of *Enterococcus faecalis.*" <u>Oral Microbiol. 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.
- McBride, S. M., et al. "Genetic Variation and Evolution of the Pathogenicity Island of *Enterococcus faecalis*." <u>J.</u> Bacteriol. 191 (2009): 3392-3402. PubMed: 19270086.
- 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.

ATCC<sup>®</sup> is a trademark of the American Type Culture Collection.

BEI Resources www.beiresources.org E-mail: contact@beiresources.org
Tel: 800-359-7370

Fax: 703-365-2898