

SUPPORTING INFECTIOUS DISEASE RESEARCH

Product Information Sheet for NR-32094

Enterococcus faecium, Strain UAA945

Catalog No. NR-32094

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: UAA945 (also referred to as EnGen0193)

Original Source: Enterococcus faecium (E. faecium), strain

UAA945 was isolated in 1996 in New York, USA.

The complete genome of E. faecium, strain Comment: **UAA945** has been sequenced (GenBank:

AIUV00000000).

E. faecium is a Gram-positive, facultative, anaerobic coccus that is a commensal inhabitant of the gastrointestinal tract of both humans and animals.²⁻⁴ *E. faecium* is an emerging and challenging nosocomial pathogen due to its inherent hardiness and ability to develop antibiotic resistance.^{2,3} Its large open pan-genome allows for horizontal gene transfer between E. faecium and other pathogenic and nonpathogenic bacteria to adapt to changing environments.

Material Provided:

Each vial contains approximately 0.5 mL of bacterial culture in 0.5X 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-32094 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 longterm storage, the vapor phase of a liquid nitrogen freezer is recommended. Freeze-thaw cycles should be avoided.

Growth Conditions:

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% CO₂) or anaerobic

Propagation:

- Keep vial frozen until ready for use, then thaw.
- Transfer the entire thawed aliquot into a single tube of
- Use several drops of the suspension to inoculate an agar slant and/or plate.
- Incubate the tube, slant and/or plate at 37°C for 24 hours.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Enterococcus faecium, Strain UAA945, NR-32094."

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.

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its derivatives must contact the contributor to determine if a license is required. U.S. Government contractors may need a license before first commercial sale.

References:

- 1. M. S. Gilmore, Personal Communication.
- van Schaik, W., et al. "Pyrosequencing-based Comparative Genome Analysis of the Nosocomial Pathogen Enterococcus faecium and Identification of a Large Transferable Pathogenicity Island." <u>BMC</u> Genomics 11 (2010): 239. PubMed: 20398277.
- Large Transferable Pathogenicity Island." <u>BMC Genomics</u> 11 (2010): 239. PubMed: 20398277.

 3. Arias, C. A. and B. E. Murray. "The Rise of the *Enterococcus*: Beyond Vancomycin Resistance." <u>Nat. Rev. Microbiol.</u> 10 (2012): 266-278. PubMed: 22421879.
- 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." <u>Int.</u> J. Syst. Bacteriol. 34 (1984): 31-34.

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