**Enterococcus faecium, Strain E1162**

**Catalog No. NR-28979**

For research use only. Not for human use.

**Contributor:**
Willem van Schaik, Department of Medical Microbiology, University Medical Center Utrecht, Utrecht, The Netherlands

**Manufacturer:**
BEI Resources

**Product Description:**

*Bacteria Classification:* Enterococccaeae, Enterococcus

*Species:* Enterococcus faecium

*Strain:* E1162

*Original Source:* Enterococcus faecium (E. faecium), strain E1162 is an infectious clinical isolate collected from a hospitalized patient suffering from a bloodstream infection in France in 1997.

*Comments:* E. faecium, strain E1162 contains an intact esp gene and a point mutation in the pbp5 gene that confers resistance to ampicillin. E. faecium, strain E1162 lacks the hyl gene while the acm gene is conserved. E. faecium, strain E1162 is assigned to Clonal Complex 17 and is classified as DNA sequence type 17 based on multilocus sequence typing of seven housekeeping genes. The complete genome of E. faecium, strain E1162 has been sequenced (GenBank: ABQJ00000000).

*E. faecium* is a Gram-positive, facultative, anaerobic coccus that is a commensal inhabitant of the gastrointestinal tract of both humans and animals. E. faecium is an emerging and challenging nosocomial pathogen due to its inherent hardness and ability to develop antibiotic resistance. Its large open pan-genome allows for horizontal gene transfer between E. faecium and other pathogenic and non-pathogenic bacteria to adapt to changing environments. The large majority of strains isolated from nosocomial infections have been classified as Clonal Complex 17 (CC17), with a distinct genetic lineage characterized by ampicillin resistance and a pathogenicity island carrying the esp gene, which is known to contribute virulence in an animal model. Two other virulence genes, hyl and acm, have been identified.

**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-28979 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:**

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

*Media:*

Tryptic Soy broth, Brain Heart Infusion broth or equivalent

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

*Incubation:*

Temperature: 35 to 37°C

Atmosphere: Aerobic (with or without 5% CO₂) 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 24 hours.

**Citation:**

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Enterococcus faecium, Strain E1162, NR-28979."

**Biosafety Level: 2**


**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 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. While 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 damages arising from the misidentification or misrepresentation of products.

Use Restrictions:
This material is distributed for internal research, non-commercial 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 license is required. U.S. Government contractors may need a license before first commercial sale.

References:

ATCC® is a trademark of the American Type Culture Collection.