Enterococcus faecium, Strain Patient #1-1

Catalog No. NR-31903

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Manufacturer:
BEI Resources

Product Description:
Bacteria Classification: Enterococcaceae, Enterococcus
Species: Enterococcus faecium
Strain: Patient #1-1 (also referred to as EnGen0314)
Original Source: Enterococcus faecium (E. faecium), strain Patient #1-1 was isolated from the stool of a human patient prior to bacteremia.\
Comment: The complete genome of E. faecium, strain Patient #1-1 (GenBank: AEIX00000000) has been sequenced.

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 hardiness 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 CC17, with a distinct genetic lineage characterized by ampicillin resistance and a pathogencicity 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-31903 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 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

Propagating:
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 Patient #1-1, NR-31903.”

Biosafety Level: 2


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References:

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