Enterococcus faecalis, Strain SF105

Catalog No. NR-31988

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Manufacturer:
BEI Resources

Product Description:

Bacteria Classification: Enterococcaceae, Enterococcus
Species: Enterococcus faecalis
Strain: SF105 (also referred to as EnGen0298)
Original Source: Enterococcus faecalis (E. faecalis), strain SF105 is a clinical isolate collected in the mid-1980s in California, USA.1,2 Comments: E. faecalis, strain SF105 has shown resistance to gentamicin and streptomycin.1,2 The complete genome of E. faecalis, strain SF105 has been sequenced (GenBank: AJEE00000000).

E. faecalis is a Gram-positive, facultatively anaerobic coccus that is a commensal inhabitant of the gastrointestinal and female genital tract.3 It is also the most frequently isolated species, often as a monoinfection, from root canals of endodontically treated teeth with persistent apical periodontitis.4 E. faecalis is an opportunistic pathogen and has become a serious concern in hospitals because of its inherent hardness and high levels of antibiotic resistance.5 Virulent strains often express a cytolysin toxin that is encoded on various mobile genetic elements, pathogenicity islands, and conjugative plasmids.6

Material Provided:

Each vial contains approximately 0.5 mL of bacterial culture in 0.5X Brain Heart Infusion broth supplemented with 10% glycerol.

Note: If homogeneity is required for your intended use, please purify prior to initiating work.

Packaging/Storage:

NR-31988 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

Propagat

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 faecalis, Strain SF105, NR-31988.”

Biosafety Level: 2


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References:

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