Product Information Sheet for NR-31971

Enterococcus faecalis, Strain SF24413

Catalog No. NR-31971

For research use only. Not for human use.

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

Manufacturer:
BEI Resources

Product Description:
Bacteria Classification: Enterococcaceae, Enterococcus
Species: Enterococcus faecalis
Strain: SF24413 (also referred to as EnGen0238)
Original Source: Enterococcus faecalis (E. faecalis), strain SF24413 was isolated in 2002 from a urine sample obtained in Michigan, USA.1 Comment: E. faecalis, strain SF24413 is reported to be resistant to erythromycin, gentamicin and vancomycin.1,3 The complete genome of E. faecalis, strain SF24413 has been sequenced (GenBank: AJAX00000000).

E. faecalis is a Gram-positive, facultatively anaerobic coccus that is a commensal inhabitant of the gastrointestinal and female genital tract.4 It is also the most frequently isolated species, often as a monoinfection, from root canals of endodontically treated teeth with persistent apical periodontitis.5 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.6 Virulent strains often express a cytolysin toxin that is encoded on various mobile genetic elements, pathogenicity islands and conjugative plasmids.7

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-31971 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 (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 1 day.

Citation:
Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Enterococcus faecalis, Strain SF24413, NR-31971."

Biosafety Level: 2

Disclaimers:
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References:
2. Gilmore, M. S., Personal Communication.

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