

Enterococcus faecalis, Strain YI6-1

Catalog No. NR-32002

Product Description: *Enterococcus faecalis* (*E. faecalis*), strain YI6-1 is a derivative of the original YI6 strain, a clinical isolate from Japan around 1992. *E. faecalis*, strain YI6-1 is reported to be resistant to gentamicin and tetracycline and susceptible to erythromycin and streptomycin. It is the first isolate characterized with a chromosomal-encoded cytolysin. The 10-kb plasmid of the parent YI6 strain was not detected in this YI6-1 derivative.

Lot¹: 62038768

Manufacturing Date: 18SEP2013

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology ² Hemolysis on blood agar ² Motility (wet mount) Analytical profile index (API [®] 20 Strep)	Gram-positive cocci Report results Non-hemolytic or α -hemolytic Report results Consistent with <i>E. faecalis</i>	Gram-positive cocci Circular, low convex, entire, smooth and white (Figure 1) Non-hemolytic ³ Non-motile Consistent with <i>E. faecalis</i>
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 770 base pairs)	Consistent with <i>E. faecalis</i>	Consistent with <i>E. faecalis</i> ⁴
Viability (post-freeze)²	Growth	Growth

¹*E. faecalis*, strain YI6-1 (also referred to as EnGen0287) was deposited by Michael S. Gilmore, Sir William Osler Professor of Ophthalmology, Department of Ophthalmology, Massachusetts Eye and Ear Infirmary, Boston, MA, USA. NR-32002 was produced by inoculation of the deposited material into Tryptic Soy broth and incubated for 24 hours at 37°C in an aerobic atmosphere. Broth inoculum was added to Tryptic Soy agar kolles, which were grown 24 hours at 37°C in an aerobic atmosphere to produce this lot. Purity of this lot was assessed for 7 days under propagation conditions.

²24 hours at 37°C in an aerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood

³*E. faecalis*, strain YI6-1 was deposited as hemolytic, however lot 62038768 displayed a non-hemolytic phenotype. This may be a result of testing on sheep blood plates, as some enterococcal hemolysins are not functional with sheep blood (Huycke, M. M., C. A. Spiegel and M. S. Gilmore. "Bacteremia Caused by Hemolytic, High-Level Gentamicin-Resistant *Enterococcus faecalis*." *Antimicrob. Agents Chemother.* 35 (1991): 1626-1634. PubMed: 1929336).

⁴≥ 99% identical to GenBank: AJEO01000005 (*E. faecalis*, strain YI6-1)

Figure 1



Date: 26 FEB 2014

Signature: 

Title: Technical Manager, BEI Authentication or designee

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