Certificate of Analysis for NR-28982

Enterococcus faecium, Strain U0317

Catalog No. NR-28982

Product Description: *Enterococcus faecium* (*E. faecium*), strain U0317 is an infectious clinical isolate collected from a hospitalized patient suffering from a urinary tract infection in the Netherlands in 2005. This strain contains point mutations in the *gyrA* gene which confer resistance to ampicillin, and in the *parC* and *pbp5* genes, which confer resistance to ciprofloxacin.

Lot[1]: 70018986 **Manufacturing Date: 19SEP2018**

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-positive cocci	Gram-positive cocci
Colony morphology[2]	Report results	Circular, convex, entire, smooth and cream (Figure 1)
Motility	Report results	Non-motile
Hemolysis[3]	Report results	α-hemolytic
VITEK® MS (MALDI-TOF)	*E. faecium*	*E. faecium* (99.9%)
Biochemical characterization		
VITEK® 2 Compact (GP card)	*E. faecium* (≥ 89%)	*E. faecium* (98%)
Antibiotic Susceptibility Profile[4]		
VITEK® (AST-GP78 card)		
Ciprofloxacin	Report results	Resistant (≥ 8 µg/mL)
Levofloxacin	Report results	Resistant (≥ 8 µg/mL)
Erythromycin	Report results	Resistant (≥ 8 µg/mL)
Linezolid	Report results	Sensitive (2 µg/mL)
Vancomycin	Report results	Sensitive (≤ 0.5 µg/mL)
Tetracycline	Report results	Sensitive (≤ 1 µg/mL)
Tigecycline	Report results	Sensitive (≤ 0.12 µg/mL)[5]
Nitrofurantoin	Report results	Resistant (256 µg/mL)
Etest® antibiotic test strips[6]		
Ampicillin	Report results	Resistant (256 µg/mL)
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene (~ 1500 base pairs)	≥ 99% sequence identity to *E. faecium*, strain U0317 (GenBank: ABSW01000109)	99.9% sequence identity to *E. faecium*, strain U0317 (GenBank: ABSW01000109)[7]
Purity (post-freeze)[8]	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
Viability (post-freeze)[2]	Growth	Growth

[1]NR-28982 lot 70018986 was produced by inoculation of BEI Resources NRS-28982 lot 61956015 into Tryptic Soy broth and incubated for 1 day at 37°C in an aerobic atmosphere. Broth inoculum was added to Tryptic Soy agar kolles, which were grown 1 day at 37°C in an aerobic atmosphere to produce this lot.
[2]1 day at 37°C in an aerobic atmosphere on Tryptic Soy agar
[3]1 day at 37°C in an aerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood
[4]Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: Clinical & Laboratory Standards Institute (CLSI) M100-S28 (2018)
[5]MIC Interpretation Guideline: EUCAST Version 8.0 (2018)
[6]1 day at 37°C in an aerobic atmosphere on Mueller Hinton agar
[7]Also consistent with other *Enterococcus* species
[8]Purity of this lot was assessed for 7 days at 37°C in an aerobic atmosphere with 5% CO_2 on Tryptic Soy agar.

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Figure 1: Colony Morphology

/Heather Couch/
Heather Couch 14 MAR 2019
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ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

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