

Certificate of Analysis for NR-50495

Escherichia coli, Strain CVD452

Catalog No. NR-50495

Product Description: Escherichia coli (E. coli), strain CVD452 is a type III secretion system translocator gene (escN) insertion mutant of the wild type strain E2348/69. Strain E2348/69 was isolated in 1969 during an outbreak of diarrhea in an infant nursery in Taunton, England.

Lot¹: 2228 Manufacturing Date: 07DEC2016

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology ² Motility ³	Gram-negative rods Report results Motile	Gram-negative rods Circular, low convex, entire, smooth and cream (Figure 1) Motile
VITEK® MS (MALDI-TOF)	Consistent with E. coli	E. coli (99.9%)
Antibiotic Susceptibility⁴ HardyDisk™ AST Disks⁵ Chloramphenicol (30 µg) Kanamycin (30 µg) Nalidixic Acid (30 µg) Tetracyline (30 µg)	Susceptible (≥ 18 mm) Resistant (≤ 13 mm) Resistant (≤ 13 mm) Susceptible (≥ 15 mm)	Susceptible (28 mm) Resistant (6 mm) Resistant (6 mm) Susceptible (26 mm)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 850 base pairs) Riboprinter® Microbial Characterization System	≥ 99% sequence identity to E. coli E2348/69 (GenBank: NC_011601.1) E. coli (≥ 0.85)	99.4% sequence identity to E. coli E2348/69 (GenBank: NC_011601.1) E. coli (0.90)
PCR Amplification of Genetic Targets from Extracted DNA		
Translocated intimin receptor (tir) Wild type tir Δtir	~ 1620 base pair amplicon ~ 2260 base pair amplicon	~ 1620 base pair amplicon
S-ribosylhomocysteinase (<i>luxS</i>) Wild type <i>luxS</i> Δ <i>luxS</i> Transcriptional regulator (<i>gadX</i>)	~ 1310 base pair amplicon ~ 2590 base pair amplicon	~ 1310 base pair amplicon
Wild type <i>gadX</i> Δ <i>gadX</i> Type III secretion system ATPase (<i>escN</i>)	~ 1300 base pair amplicon ~ 2200 base pair amplicon	~ 1300 base pair amplicon
Wild type escN ∆escN Flagellin (fliC)	~ 710 base pair amplicon ~ 1560 base pair amplicon	~ 1560 base pair amplicon
Wild type <i>fli</i> C ∆ <i>fli</i> C Plasmid pMAR2 (<i>bfpD</i>)	~ 1560 base pair amplicon ~ 2200 base pair amplicon ~ 840 base pair amplicon	~ 1560 base pair amplicon ~ 840 base pair amplicon
Purity (post-freeze) ⁶	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
Viability (post-freeze) ²	Growth	Growth

¹NR-50495 was produced by inoculation of the deposited material into Tryptic Soy broth and grown for 1 day at 37°C in an aerobic atmosphere. Broth inoculum was added to Tryptic Soy agar kolles, which were grown for 1 day at 37°C in an aerobic atmosphere to produce this lot.

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²1 day at 37°C in an aerobic atmosphere on Tryptic Soy agar

³Motility test performed in Remel™ Motility Test Medium with TTC Indicator for 1 day at 37°C in an aerobic atmosphere

⁴Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S26 (2016)

⁵1 day at 37°C in an aerobic atmosphere on Mueller Hinton agar

⁶Purity of this lot was assessed for 7 days at 37°C in an aerobic atmosphere with 5% CO₂ on Tryptic Soy agar with 5% defibrinated sheep blood.



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Figure 1: Colony Morphology



Date: 28 AUG 2017

Signature:

BEI Resources Authentication

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