

Escherichia coli, Strain E2348/69

Catalog No. NR-50518

Product Description:

Escherichia coli (*E. coli*), strain E2348/69, serotype O127:H6, was isolated in 1969 during an outbreak of diarrhea in an infant nursery in Taunton, England. *E. coli*, strain E2348/69 is known to contain the pMAR2 plasmid carrying the enteropathogenic *E. coli* (EPEC) adherence factor (EAF). NR-50518 was produced by inoculation of BEI Resources lot 2227 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. Quality control testing was completed under propagation conditions unless otherwise noted.

Lot: 70064780

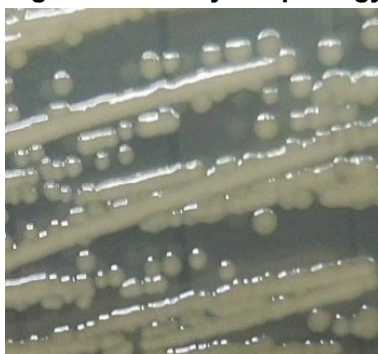
Manufacturing Date: 15NOV2023

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology Motility Hardy Diagnostics™ Motility Test Medium with TTC Indicator for 1 day at 37°C in an aerobic atmosphere VITEK® MS (MALDI-TOF)	Gram-negative rods Report results Report results <i>E. coli</i>	Gram-negative rods Circular, convex, entire, smooth and cream (Figure 1) Motile <i>E. coli</i> (99.9%)
Antibiotic Susceptibility Profile by Kirby-Bauer Disc Diffusion¹ Chloramphenicol (30 µg) Kanamycin (30 µg) Nalidixic Acid (30 µg) Tetracycline (30 µg)	Susceptible (≥ 18 mm) Susceptible (≥ 18 mm) Resistant (≤ 13 mm) Susceptible (≥ 15 mm)	Susceptible (29 mm) Susceptible (25 mm) Resistant (≤ 6 mm) Susceptible (24 mm)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1470 base pairs)	≥ 99% sequence identity to <i>E. coli</i> , strain E2348/69 (GenBank: NC_011601.1)	99.6% sequence identity to <i>E. coli</i> , strain E2348/69 (GenBank: NC_011601.1) ²
PCR Amplification of Genetic Targets from Extracted DNA³ Translocated intimin receptor (<i>tir</i>) Wild type <i>tir</i> S-ribosylhomocysteinase (<i>luxS</i>) Wild type <i>luxS</i> Transcriptional regulator (<i>gadX</i>) Wild type <i>gadX</i> Type III secretion system ATPase (<i>escN</i>) Wild type <i>escN</i> Flagellin (<i>fliC</i>) Wild type <i>fliC</i> Plasmid pMAR2 (<i>bfpD</i>)	~ 1620 base pair amplicon ~ 1310 base pair amplicon ~ 1300 base pair amplicon ~ 710 base pair amplicon ~ 1560 base pair amplicon ~ 840 base pair amplicon	~ 1620 base pair amplicon ~ 1310 base pair amplicon ~ 1300 base pair amplicon ~ 710 base pair amplicon ~ 1560 base pair amplicon ~ 840 base pair amplicon
Purity (post-freeze) 7 days at 37°C in an aerobic atmosphere with 5% CO ₂ on Tryptic Soy agar with 5% edefibrinated sheep blood	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
Viability (post-freeze)	Growth	Growth

¹Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S28 (2018).

²Also consistent with *Shigella* and other *Escherichia* species

³Performed on BEI Resources seed lot NRS-50518 lot 2227

Figure 1: Colony Morphology

/Sonia Bjorum Brower/

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16 JUN 2025

Technical Manager or designee, ATCC Federal Solutions

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