

Escherichia coli, Strain SS724

Catalog No. NR-50519

Product Description: *Escherichia coli* (*E. coli*), strain SS724 is a glutamase decarboxylase (*gadX*) 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: 2230

Manufacturing Date: 30NOV2016

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology ² Motility ³ VITEK [®] MS (MALDI-TOF)	Gram-negative rods Report results Motile <i>E. coli</i>	Gram-negative rods Circular, low convex, entire, smooth and cream (Figure 1) Motile <i>E. coli</i> (99.9%)
Antibiotic Susceptibility Profile⁴ HardyDisk [™] AST Disks ⁵ Chloramphenicol (30 µg) Kanamycin (30 µg) Nalidixic Acid (30 µg) Tetracycline (30 µg)	Susceptible (≥ 18 mm) Resistant (≤ 13 mm) Resistant (≤ 13 mm) Susceptible (≥ 15 mm)	Susceptible (24 mm) Resistant (7 mm) Resistant (6 mm) Susceptible (23 mm)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 740 base pairs) Riboprinter [®] Microbial Characterization System	≥ 99% sequence identity to <i>E. coli</i> strain E2348/69 (GenBank: NC_011601.1) <i>E. coli</i> (≥ 0.85)	99.9% sequence identity to <i>E. coli</i> strain E2348/69 (GenBank: NC_011601.1) <i>E. coli</i> (0.94)
PCR Amplification of Genetic Targets from Extracted DNA Translocated intimin receptor (<i>tir</i>) Wild type <i>tir</i> Δ <i>tir</i> S-ribosylhomocysteinase (<i>luxS</i>) Wild type <i>luxS</i> Δ <i>luxS</i> Transcriptional regulator (<i>gadX</i>) Wild type <i>gadX</i> Δ <i>gadX</i> Type III secretion system ATPase (<i>escN</i>) Wild type <i>escN</i> Δ <i>escN</i> Flagellin (<i>fliC</i>) Wild type <i>fliC</i> Δ <i>fliC</i> Plasmid pMAR2 (<i>bfpD</i>)	~ 1620 base pair amplicon ~ 2260 base pair amplicon ~ 1310 base pair amplicon ~ 2590 base pair amplicon ~ 1300 base pair amplicon ~ 2200 base pair amplicon ~ 710 base pair amplicon ~ 1560 base pair amplicon ~ 1560 base pair amplicon ~ 2200 base pair amplicon ~ 840 base pair amplicon	~ 1620 base pair amplicon ~ 1310 base pair amplicon ~ 2200 base pair amplicon ~ 710 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-50519 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.

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

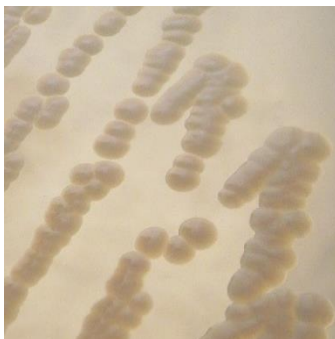
³Motility test performed in Remel[™] Motility Test Medium with TTC Indicator for 1 day at 37°C in an aerobic atmosphere

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.

Figure 1: Colony Morphology



Date: 28 AUG 2017

Signature:

A handwritten signature in black ink, appearing to read "David C. Cook".

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