

Escherichia coli, Strain MDL 4445

Catalog No. NR-4389

Product Description: *Escherichia coli* (*E. coli*) is a Gram-negative, rod-shaped bacterium which occurs singly or in pairs. It is a major facultative inhabitant of the large intestine. *E. coli*, strain MDL 4445 was isolated in California in 2006, due to an outbreak linked to spinach consumption.

Lot¹: 57938652

Manufacturing Date: 24OCT2007

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology Analytical profile index (API® 20 E)	Gram-negative rods Report results Consistent with <i>Escherichia coli</i>	Gram-negative rods Circular, entire, low convex, opaque Consistent with <i>Escherichia coli</i>
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1440 bp) Riboprinting	Consistent with <i>Escherichia coli</i> Consistent with <i>Escherichia coli</i>	Consistent with <i>Escherichia coli</i> ² Consistent with <i>Escherichia coli</i>
PCR Assay of Extracted DNA 16S ribosomal RNA gene	~ 1500 bp amplicon	~ 1500 bp amplicon
Viability (post-freeze)³	Growth	Growth

¹NR-4389 was prepared by broth (Tryptic Soy Broth, BD 211825) culture of the deposited material. *E. coli*, strain MDL 4445 was originally kept as a slant and then frozen in blood alundum. For deposition, the frozen material was used to inoculate Tryptic Soy Broth and the culture was frozen in the presence of 10% glycerol.

²Also consistent with *Shigella* species.

³24 hours at 37°C and aerobic atmosphere in Tryptic Soy Broth.

Date: 02 MAY 2008

Signature: Signature on File

Title: Technical Manager, BEI Authentication or designee

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