Certificate of Analysis for NR-4388

Escherichia coli, Strain MDL 4444

Catalog No. NR-4388

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 4444 was isolated in California in 2006, due to an outbreak linked to spinach consumption.

Lot[1]: 57938651 **Manufacturing Date: 19OCT2007**

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-negative rod	Gram-negative rod
Colony morphology	Report results	Circular, entire, low convex, opaque
Analytical profile index (API® 20 E)	Consistent with *Escherichia coli*	Consistent with *Escherichia coli*
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene (~ 1460 bp)	Consistent with *Escherichia coli*	Consistent with *Escherichia coli* [2]
Riboprinting	Report results	Consistent with *Escherichia coli*
PCR Assay of Extracted DNA		
16S ribosomal RNA gene	~ 1500 bp amplicon	~ 1500 bp amplicon
Viability (post-freeze)[3]	Growth	Growth

[1]NR-4388 was prepared by broth (Tryptic Soy Broth, BD 211825) culture of the deposited material. *E. coli*, strain MDL 4444 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.
[2]Also consistent with *Shigella* species.
[3]24 hours at 37°C and aerobic atmosphere in Tryptic Soy Broth.

Date: 18 MAY 2008 **Signature:** Signature on file

Title: Technical Manager, BEI Authentication or designee

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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