

Escherichia coli, Strain A

Catalog No. NR-8

(Derived from ATCC® 51657™)

Product Description: *Escherichia coli* (*E. coli*), strain A and many other enterohemorrhagic *E. coli* (EHEC) strains release potent toxins, similar to those of *Shigella dysenteriae*, which can cause severe intestinal, kidney and central nervous system disease. *E. coli*, strain A carries virulence-associated genes located on both the chromosome and plasmid of the organism.

Lot¹: 3592831

Manufacturing Date: 23MAR2004

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology ² Analytical profile index (API® 20 E)	Gram-negative Report results Consistent with <i>E. coli</i>	Gram-negative Circular, low convex, entire and transparent Consistent with <i>E. coli</i>
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 560 bp)	Consistent with <i>E. coli</i>	Consistent with <i>E. coli</i> ³
Presence of Plasmid Confirmed by PCR Amplification of Extracted DNA⁴ pO157	Confirmed	Confirmed
PCR Assay of Extracted DNA⁴ 16S ribosomal RNA gene Presence of virulence-associated chromosomal markers <i>stx1</i> <i>stx2</i> <i>eaeA</i>	~ 1500 bp amplicon ~ 349 bp amplicon ~ 404 bp amplicon ~ 526 bp amplicon	~ 1500 bp amplicon ~ 349 bp amplicon ~ 404 bp amplicon ~ 526 bp amplicon
Viability (post-freeze)⁵	Growth	Growth

¹NR-8 was produced by inoculation of ATCC® 51657™ into Tryptic Soy broth (BD 211825) for 24 hours at 37°C in an aerobic atmosphere.

²24 hours at 37°C in an aerobic atmosphere in Tryptic Soy agar (BD 236950)

³Also consistent with *Shigella* species

⁴DNA was extracted from a broth culture grown from BEI Resources NR-8.

⁵24 hours at 37°C in an aerobic atmosphere in Tryptic Soy broth

Date: 18 MAR 2015

Signature:



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.

ATCC® is a trademark of the American Type Culture Collection.

You are authorized to use this product for research use only. It is not intended for human use.

