

Certificate of Analysis for NR-20475

Escherichia coli, Strain DEC16E

Catalog No. NR-20475

This reagent is the tangible property of the U.S. Government.

Product Description: Escherichia coli (E. coli), strain DEC16E was isolated in 1982 from a human patient with diarrhea in Michigan, USA. Strain DEC16E was deposited as an O146:H21 serotype, Shiga toxin-producing *E. coli* (STEC).

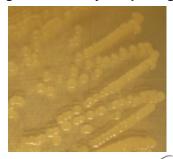
Lot¹: 63568099 Manufacturing Date: 17JUN2015

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-negative rods	Gram-negative rods
Colony morphology ²	Report results	Circular, convex, entire and cream (Figure 1)
Motility (wet mount)	Report results	Motile
VITEK® MS (MALDI-TOF)	Consistent with E. coli	Consistent with E. coli
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene (~ 1470 base pairs)	Consistent with E. coli	Consistent with E. coli
Riboprinter® Microbial Characterization System	Consistent with E. coli	Consistent with E. coli
PCR Assay of Extracted DNA PCR amplification of chromosomal borne virulence markers		
stx1	Report results	Negative
stx2	Positive	Positive
Purity (post-freeze) ³	Growth consistent with expected morphology	Growth consistent with expected morphology
Viability (post-freeze) ²	Growth	Growth

¹The deposited material was inoculated into Tryptic Soy broth and grown for 1 day at 37°C in an aerobic atmosphere, and the resulting subculture was vialed and frozen. NR-20475 was produced by inoculation of the frozen subculture 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.

³Purity of this lot was assessed for 8 days at 37°C in an aerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood.





Date: 18 NOV 2015 **Signature:**

BEI Resources Authentication

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