

**Escherichia coli, Strain DEC16E**

**Catalog No. NR-20475**

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**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).

**Lot<sup>1</sup>: 63568099**

**Manufacturing Date: 17JUN2015**

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

The 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 vialled 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.

<sup>2</sup>1 day at 37°C in an aerobic atmosphere on Tryptic Soy agar

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

**Figure 1: Colony Morphology**



**Date:** 18 NOV 2015

**Signature:**

BEI Resources Authentication

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