

Escherichia coli, Strain 3003

Catalog No. NR-17638

Product Description: *Escherichia coli* (*E. coli*), strain 3003 (serotype O157:H45) was isolated from water; it is referred to as a non-Shiga toxin-producing *E. coli* (STEC) O157 strain.

Lot¹: 63325989

Manufacturing Date: 13FEB2015

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology ² Motility (wet mount) VITEK [®] 2 (GN Card)	Gram-negative rods Report results Report results Consistent with <i>E. coli</i>	Gram-negative rods Circular, convex, entire, smooth and cream (Figure 1) Motile Consistent with <i>E. coli</i>
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1410 base pairs)	Consistent with <i>E. coli</i>	Consistent with <i>E. coli</i> ^{3,4}
PCR Assay of Extracted DNA 16S ribosomal RNA gene PCR amplification of chromosomal borne virulence markers <i>stx1</i> <i>stx2</i>	~ 1500 base pair amplicon Negative Negative	~ 1500 base pair amplicon Negative Negative
Purity (post-freeze)⁵	Growth consistent with <i>E. coli</i>	Growth consistent with <i>E. coli</i>
Viability (post-freeze)²	Growth	Growth

¹The deposited material was inoculated into Tryptic soy broth and grown 24 hours at 37°C in an aerobic atmosphere, and the resulting subculture was vialled and frozen. NR-17638 was produced by inoculation of the frozen subculture into Tryptic soy broth and grown 24 hours at 37°C in an aerobic atmosphere. Broth inoculum was added to kolles which were grown 23 hours under propagation conditions to produce this lot.

²22 hours on Tryptic soy agar under propagation conditions

³≥ 99.3% identical to GenBank: AFAF02000002.1 (*E. coli*, strain 3003)

⁴Also consistent with *Shigella* species

⁵Purity of this lot was assessed for 8 days on Tryptic soy agar under propagation conditions

Figure 1: Colony Morphology



Date: 12 AUG 2015

Signature:

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