

Escherichia coli, Strain E12053

Catalog No. NR-22050

Product Description: *Escherichia coli* (*E. coli*), strain E12053, was isolated in 1993 from cattle feces in Washington, USA, and is an O157:H7 serotype, enterohemorrhagic *E. coli* (EHEC).

Lot¹: 70005637

Manufacturing Date: 17MAY2017

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology ² Motility (wet mount) VITEK [®] MS (MALDI-TOF)	Gram-negative rods Report results Report results <i>E. coli</i>	Gram-negative rods Circular, convex, entire, smooth and cream (Figure 1) Motile <i>E. coli</i> (99.9%)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (780 base pairs)	≥ 99% sequence identity with <i>E. coli</i> type strain (GenBank: JMST01000030.1)	99.6% sequence identity with <i>E. coli</i> type strain (GenBank: JMST01000030.1)
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 Report results Positive	~ 1500 base pair amplicon Negative Positive
Purity (post-freeze)³	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
Viability (post-freeze)²	Growth	Growth

¹The deposited material was inoculated into Nutrient broth and grown 1 day at 37°C in an aerobic atmosphere, and the resulting subculture was preserved in 10% glycerol. NR-22050 was produced by inoculation of the frozen subculture into Nutrient broth and grown 1 day at 37°C in an aerobic atmosphere. Broth inoculum was added to Tryptic Soy agar kolles which were grown 1 day at 37°C in an aerobic atmosphere to produce this lot.

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

³Purity of this lot was assessed for 7 days on Tryptic Soy agar at 37°C in an aerobic atmosphere with 5% CO₂.

Figure 1: Colony Morphology



Date: 20 NOV 2017

Signature:



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