

Escherichia coli, Strain E6996

Catalog No. NR-22049

Product Description: *Escherichia coli* (*E. coli*), strain E6996, was isolated in 2000 from cattle feces in Washington, USA, and is an O157:H7 serotype, enterohemorrhagic *E. coli* (EHEC).

Lot¹: 70005635

Manufacturing Date: 01JUN2017

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology ² Motility (wet mount) VITEK® 2 Compact (GN card)	Gram-negative rods Report results Report results ≥ 90% probability of being <i>E. coli</i>	Gram-negative rods Circular, low convex, entire, smooth and cream (Figure 1) Motile <i>E. coli</i> (99% probability) ³
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 790 base pairs)	≥ 99% sequence identity to <i>E. coli</i> type strain (GenBank: JMST01000030.1)	99.5% sequence identity to <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 Positive Positive
Purity (post-freeze)⁴	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
Viability (post-freeze)²	Growth	Growth

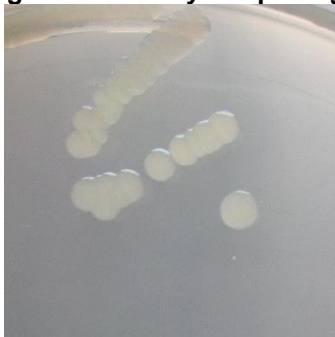
¹The deposited material was inoculated into Nutrient broth and grown 1 day at 37°C in an aerobic atmosphere, and the resulting subculture was preserved in 10% glycerol. NR-22049 was produced by inoculation of the frozen subculture into Tryptic Soy broth and grown 1 day at 37°C in an aerobic atmosphere. 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 at 37°C in an aerobic atmosphere on Tryptic Soy agar

³Percent probabilities above 90% indicate a close match to the typical biochemical pattern for the given organism, with a percent probability of 99% being a perfect match between the test reaction pattern and the unique biochemical pattern of the given organism or organism group. For additional information, please refer to O'Hara, C. M. and J. M. Miller. "Evaluation of the VITEK 2 ID-GNB Assay for Identification of Members of the Family Enterobacteriaceae and Other Nonenteric Gram-Negative Bacilli and Comparison with the VITEK GNI+ Card." *J. Clin. Microbiol.* 41 (2003): 2096-2101. PubMed: 12734254.

⁴Purity of this lot was assessed for 7 days at 37°C in an aerobic atmosphere with 5% CO₂ on Tryptic Soy agar.

Figure 1: Colony Morphology



Date: 26 OCT 2017

Signature:



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