

***Escherichia coli*, Strain E3046**

Catalog No. NR-22048

Product Description: *Escherichia coli* (*E. coli*), strain E3046, was isolated in 1995 from cattle feces in Washington, USA, and is an O157:H7 serotype, enterohemorrhagic *E. coli* (EHEC).

Lot¹: 70005633

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 ≥ 89% probability of being <i>E. coli</i>	Gram-negative rods Circular, convex, entire, smooth and cream (Figure 1) Motile <i>E. coli</i> (89%) ³
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 810 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

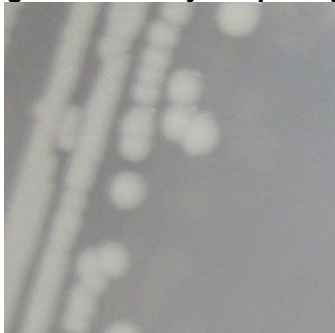
¹The deposited material was inoculated into Nutrient broth and grown 1 day at 37°C in an aerobic atmosphere, and the resulting subculture was preserved in 10% glycerol. NR-22048 was produced by inoculation of the frozen subculture into Tryptic Soy broth and grown 1 day at 37°C in an aerobic atmosphere. 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 of 89% or greater 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



Certificate of Analysis for NR-22048**Date:** 28 NOV 2017**Signature:**

BEI Resources Authentication

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected by the contributor 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.

ATCC® is a trademark of the American Type Culture Collection.
You are authorized to use this product for research use only. It is not intended for human use.

