

**Escherichia coli, Strain TW11039**

**Catalog No. NR-28715**

**Product Description:** *Escherichia coli* (*E. coli*), strain TW11039 was isolated in 2002 from human stool in Michigan, USA; it has been typed as an O157:H7 serotype, enterohemorrhagic *E. coli* (EHEC) strain.

**Lot<sup>1</sup>: 63087129**

**Manufacturing Date: 14NOV2014**

TEST	SPECIFICATIONS	RESULTS
<b>Phenotypic Analysis</b> Cellular morphology 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, low convex, entire, smooth and cream (Figure 1) Motile Consistent with <i>E. coli</i>
<b>Genotypic Analysis</b> Sequencing of 16S ribosomal RNA gene (~ 1430 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> <sup>3,4</sup> Consistent with <i>E. coli</i>
<b>PCR Assay of Extracted DNA</b> 16S ribosomal RNA gene PCR amplification of chromosomal borne virulence markers <i>stx1</i> <i>stx2</i>	~ 1500 bp amplicon  Report results Report results	~ 1500 bp amplicon  Positive Positive
<b>Purity (post-freeze)<sup>5</sup></b>	Growth consistent with <i>E. coli</i>	Growth consistent with <i>E. coli</i>
<b>Viability (post-freeze)<sup>2</sup></b>	Growth	Growth

<sup>1</sup>The deposited material was inoculated into Nutrient broth and grown 24 hours at 37°C in an aerobic atmosphere, and the resulting subculture was vialled and frozen. NR-28715 was produced by inoculation of the frozen subculture into Nutrient broth and grown 24 hours at 37°C in an aerobic atmosphere. Broth inoculum was added to Nutrient agar kolles which were grown 24 hours under propagation conditions to produce this lot.

<sup>2</sup>20 hours on Nutrient agar under propagation conditions

<sup>3</sup>≥ 99.9% identical to GenBank: AKLW01000071.1 (*E. coli*, strain TW11039)

<sup>4</sup>Also consistent with *Shigella* species

<sup>5</sup>Purity of this lot was assessed for 7 days on Nutrient agar under propagation conditions.

**Figure 1**



**Date:** 12 FEB 2015

**Signature:**

**Title:**

Technical Manager, BEI Authentication or designee

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