

## **Certificate of Analysis for NR-17639**

## Escherichia coli, Strain TW07793

Catalog No. NR-17639

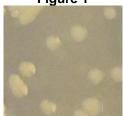
**Product Description:** Escherichia coli (E. coli), strain TW07793 (serotype O157:H39) was isolated from water; it is referred to as a non-Shiga toxin-producing E. coli (STEC) O157 strain.

Lot<sup>1</sup>: 63325991 Manufacturing Date: 13FEB2015

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-negative rods	Gram-negative rods
Colony morphology <sup>2</sup>	Report results	Circular, convex, entire, smooth and cream (Figure 1)
Motility (wet mount)	Report results	Motile
VITEK® MS (MALDI-TOF)	Consistent with E. coli	Consistent with E. coli
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1490 base pairs)	Consistent with E. coli	Consistent with E. coli <sup>3,4</sup>
PCR Assay of Extracted DNA 16S ribosomal RNA gene PCR amplification of chromosomal borne virulence markers	~ 1500 base pair amplicon	~ 1500 base pair amplicon
stx1	Negative	Negative
stx2	Negative	Negative
Purity (post-freeze) <sup>5</sup>	Growth consistent with E. coli	Growth consistent with E. coli
Viability (post-freeze) <sup>2</sup>	Growth	Growth

<sup>&</sup>lt;sup>1</sup>The deposited material was inoculated into Tryptic soy broth and grown 24 hours at 37°C in an aerobic atmosphere, and the resulting subculture was vialed and frozen. NR-17639 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 at 37°C and aerobic atmosphere to produce this lot.

Figure 1



**Date:** 25 JUN 2015

Signature:

**BEI Resources Authentication** 

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<sup>&</sup>lt;sup>2</sup>21 hours at 37°C in an aerobic atmosphere on Tryptic Soy agar

<sup>&</sup>lt;sup>3</sup>≥ 99.7% identical to GenBank: AFAG02000002.1 (E. coli, strain TW07793)

<sup>&</sup>lt;sup>4</sup>Also consistent with *Shigella* species

<sup>&</sup>lt;sup>5</sup>Purity of this lot was assessed for 7 days on Tryptic soy agar under propagation condition