

***Escherichia coli*, Strain 96.0497 (Serotype O91:H21)**

Catalog No. NR-17623

Product Description: *Escherichia coli* (*E. coli*), strain 96.0497 (serotype O91:H21) is a human isolate; its genome encodes for the Shiga-like type 2 toxin (Stx2).

Lot¹: 63568092

Manufacturing Date: 19JUN2015

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology ² Motility (wet mount) VITEK [®] MS (MALDI-TOF)	Gram-negative rods Report results Report results Consistent with <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 (~ 1490 base pairs) Riboprinter [®] Microbial Characterization System	Consistent with <i>E. coli</i> ≥ 85% <i>E. coli</i>	Consistent with <i>E. coli</i> ^{3,4} <i>E. coli</i> (89%)
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 Negative Positive	~ 1500 base pair amplicon Negative Positive
Purity (post-freeze)⁵	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
Viability (post-freeze)²	Growth	Growth

¹The deposited material was inoculated into Tryptic Soy broth and grown for 1 day at 37°C in an aerobic atmosphere, and the resulting subculture was viald and frozen. NR-17623 was produced by inoculation of the frozen subculture into Tryptic Soy broth and grown for 1 day at 37°C in an aerobic atmosphere. Broth inoculum was added to Tryptic Soy agar kolles, which were grown for 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

³ ≥ 99% identical to GenBank: AEZU02000006.1 (*E. coli*, strain 96.0497)

⁴Also consistent with *Shigella* species

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

Figure 1: Colony Morphology



Date: 07 APR 2016

Signature: 

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