

Escherichia coli, Strain U9-41

Catalog No. NR-17666

Product Description: *Escherichia coli* (*E. coli*), strain U9-41 was isolated from human urine.

Lot¹: 61175011

Manufacturing Date: 09AUG2012

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology ² Analytical profile index (API [®] 20 E)	Report results Report results Consistent with <i>E. coli</i>	Gram-negative rods Circular, low convex, entire, gray and smooth (Figure 1) Consistent with <i>E. coli</i>
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1490 base pairs) PCR amplification of plasmid borne virulence markers ⁴ <i>elt</i> (pJY11) <i>esth</i> and/or <i>estp</i> (pCS1) EAF (pEAF) <i>bfpA</i> (pEAF) <i>invE</i> (pINV) CVD432 (pAA) <i>aggR</i> (pAA) PCR amplification of chromosomal borne virulence markers ⁴ <i>astA</i> <i>eaeA</i> <i>stx1</i> <i>stx2</i> Riboprinter [®] Microbial Characterization System	Consistent with <i>E. coli</i> Report results Report results Report results Report results Report results Report results Report results Report results Report results Report results Report results Consistent with <i>E. coli</i>	Consistent with <i>E. coli</i> ³ Pending Pending Pending Pending Pending Pending Pending Pending Pending Pending Consistent with <i>E. coli</i>
Viability (post-freeze)²	Growth	Growth

¹*E. coli*, strain U9-41 was deposited by C. DebRoy, Director, *E. coli* Reference Center, Department of Veterinary and Biomedical Sciences, College of Agricultural Sciences, The Pennsylvania State University, University Park, Pennsylvania. NR-17666 was produced by inoculation of the deposited material into Tryptic Soy broth and grown 24 hours at 37°C and aerobic atmosphere. Broth inoculum was added to kolles which were grown 24 hours at 37°C and aerobic atmosphere to produce this lot.

²24 hours at 37°C and aerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood

³Also consistent with *Shigella* species

⁴Performed using the Diarrheagenic *E. coli* 12-Target Multiplex PCR for Virulence Typing Assay (BEI Resources NR-13439); the primers for CVD432, *aggR*, *bfpA*, *esth*, EAF and *astA* are described in Kimata, K., et al. "Rapid Categorization of Pathogenic *Escherichia coli* by Multiplex PCR." *Microbiol. Immunol.* 49 (2005): 485-492. PubMed: 15965295.

Figure 1



Certificate of Analysis for NR-17666

Date: 17 JUN 2013

Signature:



Title: Technical Manager, BEI Authentication or designee

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