

Certificate of Analysis for NR-17666

Escherichia coli, Strain U9-41

Catalog No. NR-17666

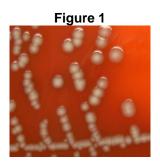
Product Description: Escherichia coli (E. coli), strain U9-41 was isolated from human urine.

Lot¹: 61175011 Manufacturing Date: 09AUG2012

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

¹E. 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.

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.



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

³Also consistent with *Shigella* species



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Date: 17 JUN 2013

Signature: (

Title:

Technical Manager, BEI Authentication or designee

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