

Escherichia coli, Strain RDEC-1

Catalog No. NR-17649

Product Description: *Escherichia coli* (*E. coli*), strain RDEC-1, serotype O15:H2, was isolated in the U.S. in the 1970s from several rabbits with diarrhea. The original strain was deposited to ATCC® in 1988 by the isolator, J. Robert Cantey, M.D., and is available through BEI Resources as NR-104. **Note: The label refers to this item as strain RDEC-1 (10f). The (10f) is a lab designation that was used for tracking and is not part of the strain name.**

Lot¹: 61175009

Manufacturing Date: 31AUG2012

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 rod Circular, convex, entire, smooth and gray (Figure 1) Consistent with <i>E. coli</i>
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1480 base pairs) Riboprinter® Microbial Characterization System PCR amplification of chromosomal borne virulence markers ⁴ <i>stx1</i> <i>stx2</i>	Consistent with <i>E. coli</i> Consistent with <i>E. coli</i> Report results Report results	Consistent with <i>E. coli</i> ³ Consistent with <i>E. coli</i> Negative Negative
Viability (post-freeze)²	Growth	Growth

E. coli, strain RDEC-1 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-17649 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



Date: 19 MAY 2015

Signature:

BEI Resources Authentication

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