

Escherichia coli, Strain 3.2608

Catalog No. NR-17625

Product Description: *Escherichia coli* (*E. coli*), strain 3.2608 was isolated from a horse; it is referred to as a non-O157, Shiga toxin-producing *E. coli* (STEC) strain.

Lot¹: 60798947

Manufacturing Date: 22MAR2012

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, low convex, entire, glossy and gray (Figure 1) Consistent with <i>E. coli</i>
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1470 base pairs) PCR amplification of plasmid borne virulence markers ⁵ <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 ⁵ <i>astA</i> <i>eaeA</i> <i>stx1</i> <i>stx2</i>	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> ^{3,4} Negative Negative Negative Negative Negative Negative Negative Negative Positive Positive Negative
Viability (post-freeze)²	Growth	Growth

¹*E. coli*, strain 3.2608 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-17625 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.

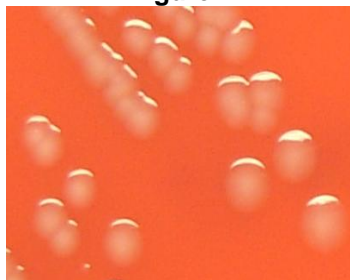
²24 hours at 37°C and aerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood

³≥ 99% identical to *E. coli*, strain 3.2608 (GenBank: AEZS02000010)

⁴Also consistent with *Shigella* sp.

⁵Performed 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: 03 JUL 2013

Signature: 

Title: Technical Manager, BEI Authentication or designee

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