Certificate of Analysis for NR-20450

Escherichia coli, Strain TB182A

Catalog No. NR-20450

This reagent is the tangible property of the U.S. Government.

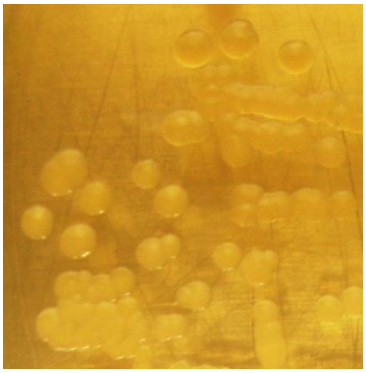
Product Description: *Escherichia coli* (*E. coli*), strain TB182A was isolated between 1991 and 1992 from an infant with chronic diarrhea in a pediatric hospital in Seattle, Washington. Strain TB182A has been typed as an O55:H7 serotype, enteropathogenic *E. coli* (EPEC).

Lot[1]: 63568097 **Manufacturing Date: 17JUN2015**

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-negative rods	Gram-negative rods
Colony morphology[2]	Report results	Circular, convex, entire and cream (Figure 1)
Motility (wet mount)	Report results	Motile
VITEK® MS (MALDI-TOF)	Consistent with *E. coli*	Consistent with *E. coli*
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene (~ 1480 base pairs)	Consistent with *E. coli*	Consistent with *E. coli*[3]
Riboprinter® Microbial Characterization System	Consistent with *E. coli*	Consistent with *E. coli*
PCR Assay of Extracted DNA		
16S ribosomal RNA gene	~ 1500 base pair amplicon	~ 1500 base pair amplicon
PCR amplification of chromosomal borne virulence markers		
stx1	Negative	Negative
stx2	Negative	Negative
Purity (post-freeze)[4]	Growth consistent with *E. coli*	Growth consistent with *E. coli*
Viability (post-freeze)[2]	Growth	Growth

[1]The 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 vialed and frozen. NR-20450 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 a Tryptic Soy agar kolle, which was grown for 1 day at 37°C in an aerobic atmosphere to produce this lot.
[2]1 day at 37°C in an aerobic atmosphere on Tryptic Soy agar
[3]Also consistent with *Shigella* species
[4]Purity of this lot was assessed for 8 days at 37°C in an aerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood.

Figure 1: Colony Morphology



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Date: 11 NOV 2015 **Signature:** 

BEI Resources Authentication

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