

Certificate of Analysis for NR-13603

Genomic DNA from *Clostridium difficile*, Isolate 12

Catalog No. NR-13603

Product Description: Genomic DNA was obtained from a preparation of *Clostridium difficile* (*C. difficile*), isolate 12 which was isolated from a human patient from the Mid-Atlantic region of the United States in 2008/2009.

Lot¹: 59147498

Manufacturing Date: 25FEB2011

TEST	SPECIFICATIONS	RESULTS
Sequencing of 16S Ribosomal RNA Gene (~ 1430 base pairs)	Consistent with <i>C. difficile</i>	Consistent with <i>C. difficile</i>
Agarose Gel Electrophoresis	High molecular weight chromosomal DNA	High molecular weight chromosomal DNA (Figure 1)
Concentration by PicoGreen® Measurement	0.7 to 1.5 µg in 25 to 100 µL per vial	1.0 µg in 28 µL per vial (36 µg/mL)
Functional Activity by PCR Amplification 16S ribosomal RNA gene	~ 1500 bp amplicon	~ 1500 bp amplicon
OD ₂₆₀ /OD ₂₈₀ Ratio	1.7 to 2.0	1.7
Bacterial Inactivation 10% of total yield plated on Tryptic Soy Agar with 5% defibrinated sheep blood ^{2,3}	No viable bacteria detected	No viable bacteria detected

¹The bacterial preparation used for extraction of genomic DNA was produced by Modified Reinforced Clostridial Broth (ATCC medium 2107) culture of the third passage of the deposited material. After incubation for 48 hours at 37°C in an anaerobic atmosphere (80% N₂:10% CO₂:10% H₂), genomic DNA was extracted using proprietary technology.

²7 days at 37°C in an anaerobic atmosphere (80% N₂:10% CO₂:10% H₂)

³An extraction procedure was used that has been shown to consistently inactivate 100% of Gram-negative and Gram-positive bacteria.

Date: 31 AUG 2011

Signature:



Title:

Technical Manager, BEI Authentication or designee

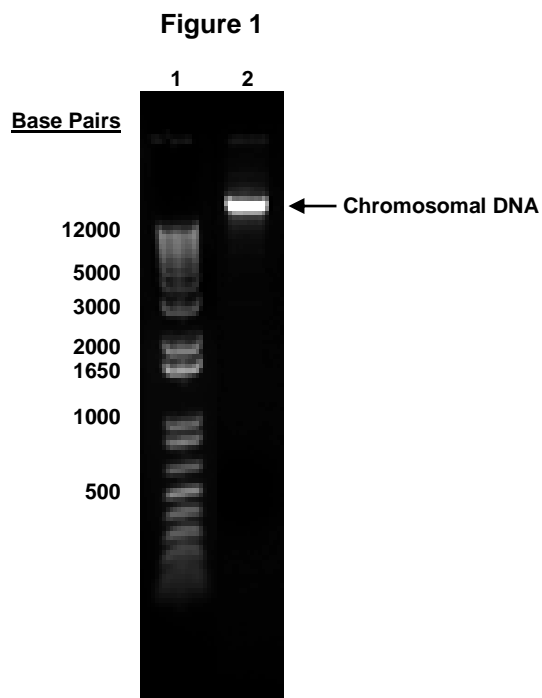
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Lane 1: Invitrogen™ TrackIt 1 Kb Plus DNA Ladder™
Lane 2: 200 ng of NR-13603