

Genomic DNA from *Clostridium difficile*, Isolate 10

Catalog No. NR-13601

Product Description: Genomic DNA was obtained from a preparation of *Clostridium difficile* (*C. difficile*), isolate 10 which was isolated from a human patient from the Mid-Atlantic region of the United States in 2008/2009.

Lot¹: 59147496

Manufacturing Date: 24AUG2010

TEST	SPECIFICATIONS	RESULTS
Sequencing of 16S Ribosomal RNA Gene (~ 1330 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	0.8 µg in 40 µL per vial (21 µg/mL)
Functional Activity by PCR Amplification 16S ribosomal RNA gene	~ 1500 bp amplicon	~ 1500 bp amplicon
OD₂₆₀/OD₂₈₀ Ratio	1.7 to 1.9	1.7
Bacterial Inactivation 10% of total yield plated on CDC anaerobic blood agar ^{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 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: 11 FEB 2011

Signature: 

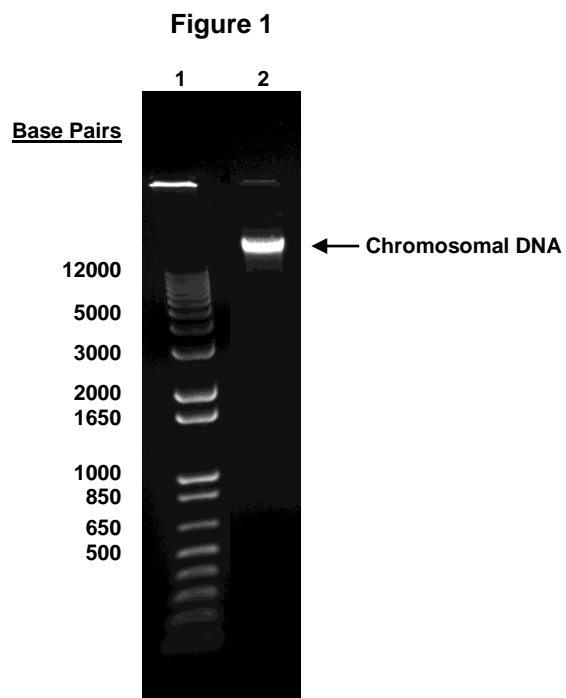
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Lane 1: Invitrogen™ TrackIt 1 Kb Plus DNA Ladder™
Lane 2: 200 ng of NR-13601