

# Genomic DNA from *Clostridium difficile*, Isolate 13

Catalog No. NR-13604

**Product Description:** Genomic DNA was obtained from a preparation of *Clostridium difficile* (*C. difficile*), isolate 13 which was isolated from a human patient from the Mid-Atlantic region of the United States in 2008/2009.

Lot<sup>1</sup>: 59147501

Manufacturing Date: 27AUG2010

TEST	SPECIFICATIONS	RESULTS
Sequencing of 16S Ribosomal RNA Gene (~ 1320 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	0.87 µg in 46 µL per vial (19 µg/mL)
Functional Activity by PCR Amplification 16S ribosomal RNA gene	~ 1500 bp amplicon	~ 1500 bp amplicon
OD <sub>260</sub> /OD <sub>280</sub> Ratio	1.7 to 2.0	1.7
Bacterial Inactivation 10% of total yield plated on CDC anaerobic blood agar <sup>2,3</sup>	No viable bacteria detected	No viable bacteria detected

<sup>1</sup>The 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% N<sub>2</sub>:10% CO<sub>2</sub>:10% H<sub>2</sub>), genomic DNA was extracted using proprietary technology. The deposited material was initially grown in Modified Reinforced Clostridial Broth and incubated for 48 hours at 37°C and anaerobic atmosphere (80% N<sub>2</sub>:10% CO<sub>2</sub>:10% H<sub>2</sub>), then passaged three times under equivalent conditions.

<sup>2</sup>7 days at 37°C in an anaerobic atmosphere (80% N<sub>2</sub>:10% CO<sub>2</sub>:10% H<sub>2</sub>)

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

Date: 10 MAY 2011

Signature:



Title:

Technical Manager, BEI Authentication or designee

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# Certificate of Analysis for NR-13604

