

Genomic DNA from *Clostridioides difficile*, Strain NAP08 (CDC#2007019)

Catalog No. HM-89D

Product Description:

Genomic DNA was extracted from a preparation of *Clostridioides difficile* (*C. difficile*), strain NAP08 (CDC#2007019) which was isolated from human feces. The bacterial preparation used for extraction of genomic DNA was produced by culture of BEI Resources seed lot 58989283 using proprietary technology. HM-89D lot 70050384 is provided in TE buffer (10 mM Tris-HCl, 1 mM EDTA, pH ~ 7.4). **Note: The genus designation on the vial label for lot 70050384 is incorrect. The correct genus designation is *Clostridioides difficile*.**

Note: Quality control of HMP organisms used for DNA extraction is only performed to demonstrate that the material produced by BEI Resources is identical to the deposited material. It should not be considered a complete characterization of the deposited organism.

Lot: 70050384

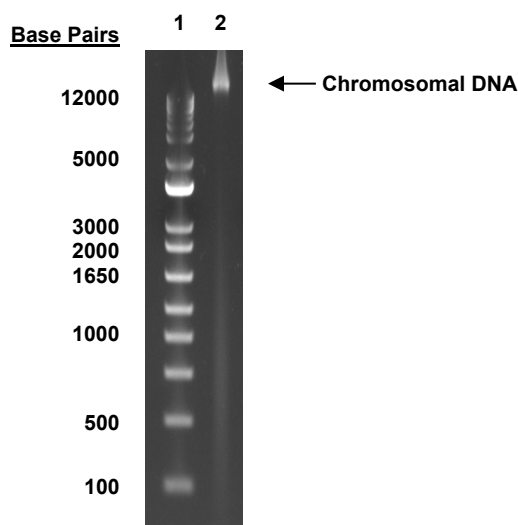
Manufacturing Date: 27MAY2022

TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1400 base pairs)	≥ 99% sequence identity to <i>C. difficile</i> , strain NAP08 (CDC#2007019) (GenBank: ADNX01000106.1)	99.8% sequence identity to <i>C. difficile</i> , strain NAP08 (CDC#2007019) (GenBank: ADNX01000106.1)
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 33 µL per vial (31 µg per mL)
Amount per Vial	0.7 to 1.5 µg	1.0 µg
Functional Activity by PCR Amplification 16S ribosomal RNA gene	~ 1500 base pair amplicon	~ 1500 base pair amplicon
OD₂₆₀/OD₂₈₀ Ratio	1.7 to 2.1	2.0
Bacterial Inactivation 10% of total yield plated on agar ^{1,2}	No viable bacteria detected	No viable bacteria detected

¹14 days at 37°C in an anaerobic atmosphere on Tryptic Soy agar with 5% sheep blood.

²An extraction procedure was used that has been shown to consistently inactivate 100% of Gram-positive and Gram-negative bacteria.

Figure 1: Agarose Gel Electrophoresis



Lane 1: Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder
Lane 2: 200 ng of HM-89D

/Sonia Bjorum Brower/

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09 JAN 2023

Technical Manager or designee, ATCC Federal Solutions

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