

Certificate of Analysis for HM-287D

Genomic DNA from *Clostridium* sp., Strain HGF2

Catalog No. HM-287D

Product Description: Genomic DNA was extracted from a preparation of *Clostridium* sp., strain HGF2.

Lot^{1,2}: 59722415

Manufacturing Date: 11MAR2011

TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1430 base pairs)	≥ 99% sequence identity to <i>Clostridium</i> sp., strain HGF2 (GenBank: AENW01000022.1)	99.8% sequence identity to <i>Clostridium</i> sp., strain HGF2 (GenBank: AENW01000022.1)
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 25 µL per vial (40 µg/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 2.0	1.9
Bacterial Inactivation 10% of total yield plated on agar ^{3,4}	No viable bacteria detected	No viable bacteria detected

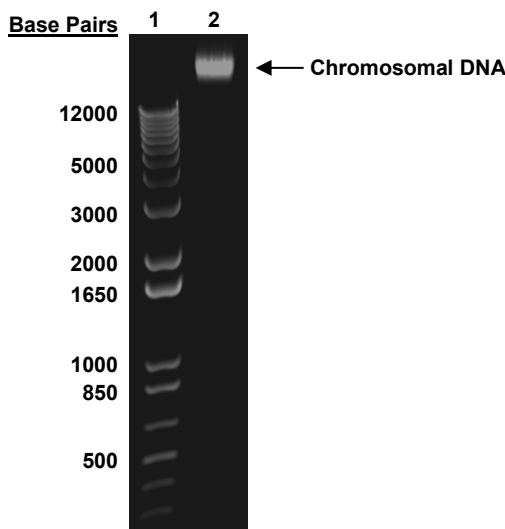
¹Quality control of HMP organisms used for DNA extraction is only performed to demonstrate that the material produced by BEI Resources is identical to the deposited material. It should not be considered a complete characterization of the deposited organism.

²The bacterial preparation used for extraction of genomic DNA was produced by culture of the deposited material. Genomic DNA was extracted using proprietary technology.

³7 days at 37°C in an anaerobic atmosphere (80% N₂:10% CO₂:10% H₂) on Tryptic Soy agar with 5% defibrinated sheep blood

⁴An 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-287D

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/Heather Couch/

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28 NOV 2018

Program Manager or designee, ATCC Federal Solutions

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