

Genomic DNA from *Actinomyces israelii*, Strain F0345

Catalog No. HM-98D

Product Description:

Genomic DNA was extracted from a preparation of *Actinomyces israelii*, (*A. israelii*), strain F0345 which was isolated from a human oral cavity. The bacterial preparation used for extraction of genomic DNA was produced by culture of BEI Resources seed lot 70046945. Genomic DNA was extracted using proprietary technology. HM-98D is provided in TE buffer (10 mM Tris-HCl, 1 mM EDTA, pH ~ 8).

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: 70059692

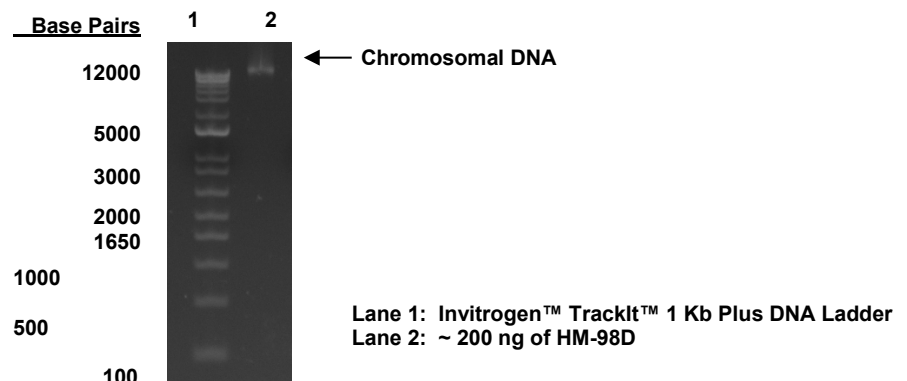
Manufacturing Date: 10MAY2023

TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1420 base pairs)	≥ 99% sequence identity to <i>A. israelii</i> , strain F0345 (GenBank: CP124548.1)	100% sequence identity to <i>A. israelii</i> , strain F0345 (GenBank: CP124548.1)
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 (30 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 2.1	1.8
Bacterial Inactivation 10% of total yield plated on agar for 14 days ^{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-negative and Gram-positive bacteria.

Figure 1: Agarose Gel Electrophoresis



/Sonia Bjorum Brower/

Sonia Bjorum Brower

Technical Manager or designee, ATCC Federal Solutions

15 AUG 2023

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