

Genomic DNA from *Gemella sanguinis*, Strain M325

Catalog No. HM-241D

Product Description: Genomic DNA was extracted from a preparation of *Gemella sanguinis* (*G. sanguinis*), strain M325.

Lot^{1,2}: 70009968

Manufacturing Date: 26OCT2017

TEST	SPECIFICATIONS	RESULTS
Sequencing of 16S Ribosomal RNA Gene (~ 760 base pairs)	≥ 99% identical to <i>G. sanguinis</i> , strain M325 (GenBank: ACYR02000003.1)	100% identical to <i>G. sanguinis</i> , strain M325 (GenBank: ACYR02000003.1)
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	1.3 µg in 26 µL per vial (49 µg/mL)
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	2.0
Bacterial Inactivation 10% of total yield plated on Tryptic Soy agar ^{3,4}	No viable bacteria detected	No viable bacteria detected

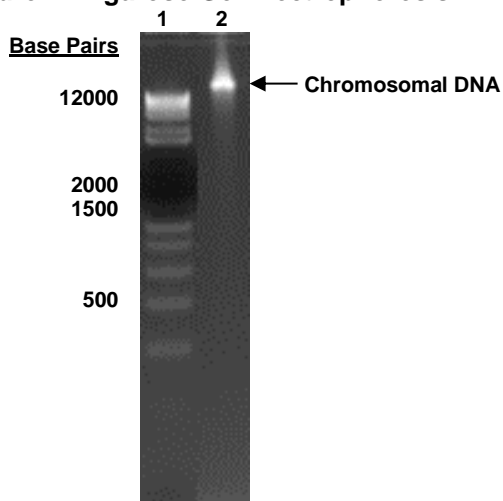
¹Quality control of HMP organisms used for DNA extraction is only performed to demonstrate that the material produced by BEI Resources is identical to the deposited material. It should not be considered a complete characterization of the deposited organism.

²The bacterial preparation used for extraction of genomic DNA was produced by culture of BEI Resources HM-241 lot 59925948. Genomic DNA was extracted using proprietary technology.

³14 days at 37°C in an aerobic atmosphere with 5% CO₂ on Tryptic Soy agar

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-241D

12 FEB 2018

Program Manager or designee, ATCC Federal Solutions

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