

Certificate of Analysis for HM-262D

Genomic DNA from Streptococcus mitis, Strain F0392

Catalog No. HM-262D

Product Description: Genomic DNA was obtained from a preparation of *Streptococcus mitis* (*S. mitis*), strain F0392, biovar 2 which was isolated from a human oral cavity.

Lot¹: 59476596 Manufacturing Date: 08NOV2010

TEST	SPECIFICATIONS	RESULTS
Sequencing of 16S Ribosomal RNA Gene (1400 base pairs)	≥ 99% identical to depositor's sequence Consistent with <i>S. mitis</i>	≥ 99% identical to depositor's sequence Consistent with <i>S. mitis</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	0.8 μg in 27 μL per vial (29 μg/mL)
Functional Activity by PCR Amplification 16S ribosomal RNA gene	~ 1500 bp amplicon	~ 1500 bp amplicon
OD ₂₆₀ /OD ₂₈₀ Ratio	1.7 to 2.0	2.0
Bacterial Inactivation 10% of total yield plated on Tryptic Soy Agar with 5% defibrinated sheep blood ^{2,3}	No viable bacteria detected	No viable bacteria detected

The bacterial preparation used for extraction of genomic DNA was produced by Tryptic Soy Broth culture of the deposited material. After incubation for 24 hours at 37°C in an aerobic atmosphere, genomic DNA was extracted using proprietary technology.

Date: 13 APR 2011 Signature:

Title: Technical Manager, BEI Authentication or designee

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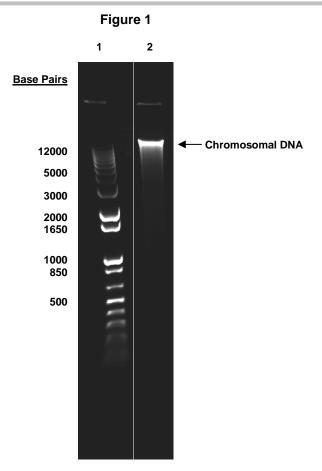
Fax: 703-365-2898

²7 days at 37°C in an aerobic atmosphere

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



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Lane 1: Invitrogen™ Tracklt 1 Kb Plus DNA Ladder™ Lane 2: 200 ng of HM-262D

HM-262D_59476596_13APR2011

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