Certificate of Analysis for HM-279D

Genomic DNA from Microbial Mock Community A (Staggered, Low Concentration), v3.2

Catalog No. HM-279D

Product Description: A mixture of genomic DNA from 21 bacterial strains containing ribosomal RNA operon counts that vary by up to four orders of magnitude per organism (Staggered).

Lot[1,2]: 59206571 **Manufacturing Date: 14OCT2009**

TEST	SPECIFICATIONS	RESULTS
DNA Sequencing of 16S Ribosomal RNA Genes from Mock Community A (~ 1500 bp)	Consistent with *Acinetobacter baumannii* Consistent with *Actinomyces odontolyticus* Consistent with *Bacillus cereus* Consistent with *Bacteriodes vulgatus* Consistent with *Clostridium beijerinkii* Consistent with *Deinococcus radiodurans* Consistent with *Enterococcus faecalis* Consistent with *Escherichia coli* Consistent with *Heliobacter pylori* Consistent with *Lactobacillus gasseri* Consistent with *Listeria monocytogenes* Consistent with *Neisseria meningitidis* Consistent with *Porphyromonas gingivalis* Consistent with *Propionibacterium acnes* Consistent with *Pseudomonas aeruginosa* Consistent with *Rhodobacter sphaeroides* Consistent with *Staphylococcus aureus* Consistent with *Staphylococcus epidermidis* Consistent with *Streptococcus agalactiae* Consistent with *Streptococcus mutans* Consistent with *Streptococcus pneumoniae*	Consistent with *Acinetobacter baumannii* Consistent with *Actinomyces odontolyticus* Consistent with *Bacillus cereus* Consistent with *Bacteriodes vulgatus* Consistent with *Clostridium beijerinkii* Consistent with *Deinococcus radiodurans* Consistent with *Enterococcus faecalis* Consistent with *Escherichia coli* Consistent with *Heliobacter pylori* Consistent with *Lactobacillus gasseri* Consistent with *Listeria monocytogenes* Consistent with *Neisseria meningitidis* Consistent with *Porphyromonas gingivalis* Consistent with *Propionibacterium* sp. Consistent with *Pseudomonas aeruginosa* Consistent with *Rhodobacter sphaeroides* Consistent with *Staphylococcus* sp. Consistent with *Staphylococcus* sp. Consistent with *Streptococcus agalactiae* Consistent with *Streptococcus mutans* Consistent with *Streptococcus pneumoniae*
Agarose Gel Electrophoresis	High molecular weight chromosomal DNA	High molecular weight chromosomal DNA (Figure 1)
Individual DNA Concentration from Mock Community A (Determined by Qubit™ Quantitation Platform)	Report results Report results	0.008 ng/µL of *Acinetobacter baumannii* 0.001 ng/µL of *Actinomyces odontolyticus* 0.045 ng/µL of *Bacillus cereus* 0.001 ng/µL of *Bacteriodes vulgatus* 0.044 ng/µL of *Clostridium beijerinkii* 0.001 ng/µL of *Deinococcus radiodurans* 0.001 ng/µL of *Enterococcus faecalis* 0.681 ng/µL of *Escherichia coli* 0.009 ng/µL of *Heliobacter pylori* 0.003 ng/µL of *Lactobacillus gasseri* 0.005 ng/µL of *Listeria monocytogenes* 0.583 ng/µL of *Neisseria meningitidis* 0.003 ng/µL of *Porphyromonas gingivalis* 0.009 ng/µL of *Propionibacterium acnes* 0.161 ng/µL of *Pseudomonas aeruginosa* 1.413 ng/µL of *Rhodobacter sphaeroides* 0.059 ng/µL of *Staphylococcus aureus* 0.001 ng/µL of *Staphylococcus epidermidis* 0.032 ng/µL of *Streptococcus agalactiae* 0.417 ng/µL of *Streptococcus mutans* 0.554 ng/µL of *Streptococcus pneumoniae*

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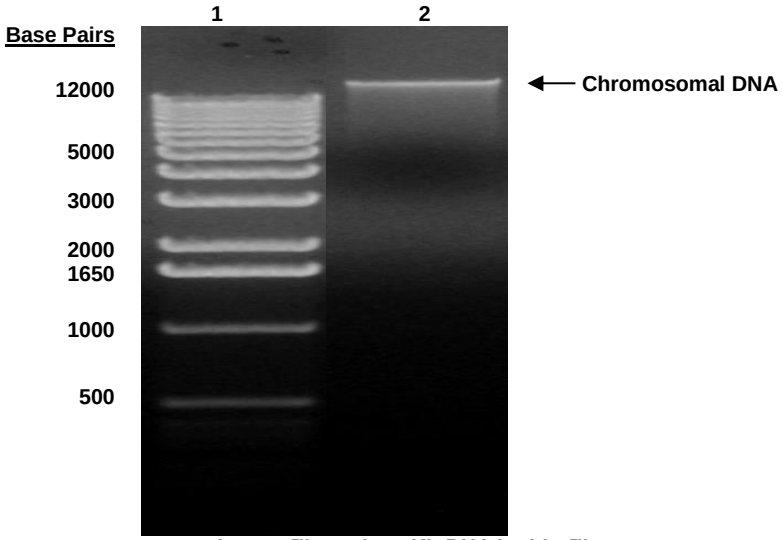
TEST	SPECIFICATIONS	RESULTS
Total Amount of DNA per vial	Report results	81 ng
Functional Activity by PCR Amplification 16S ribosomal RNA gene	~ 1500 bp amplicon	~ 1500 bp amplicon
Individual OD_{260}/OD_{280} Ratios from Mock Community A (Determined by Nanodrop)	Report results Report results	1.9 *Acinetobacter baumannii* 1.9 *Actinomyces odontolyticus* 1.9 *Bacillus cereus* 1.8 *Bacteriodes vulgatus* 1.9 *Clostridium beijerinkii* 2.0 *Deinococcus radiodurans* 1.9 *Enterococcus faecalis* 1.9 *Escherichia coli* 1.8 *Heliobacter pylori* 1.8 *Lactobacillus gasseri* 1.8 *Listeria monocytogenes* 1.9 *Neisseria meningitidis* 1.9 *Porphyromonas gingivalis* 1.9 *Propionibacterium acnes* 1.9 *Pseudomonas aeruginosa* 1.8 *Rhodobacter sphaeroides* 1.9 *Staphylococcus aureus* 2.0 *Staphylococcus epidermidis* 1.8 *Streptococcus agalactiae* 1.8 *Streptococcus mutans* 1.9 *Streptococcus pneumoniae*
Bacterial Inactivation[3]	0 cfu per 17 µL DNA	No viable bacteria detected

[1]Preparation, QC testing and vialing was performed at Baylor College of Medicine in Houston, Texas.
[2]Genomic DNA was extracted using the Omega E.Z.N.A.® Bacterial DNA Kit.
[3]Completed at 37°C in an anaerobic atmosphere (80% N_2:10% CO_2:10% H_2) and in an aerobic atmosphere on Tryptic Soy agar with 5% sheep blood.

Figure 1



Lane 1: Invitrogen™ TrackIt 1 Kb DNA Ladder™
Lane 2: 100 ng of HM-279D

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Date: 08 OCT 2010 **Signature:** Signature on file

Title: Technical Manager, BEI Authentication or designee

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