b|e|i RESOURCES

SUPPORTING INFECTIOUS DISEASE RESEARCH

Certificate of Analysis for HM-278D

Genomic DNA from Microbial Mock Community A (Even, Low Concentration), v3.1

Catalog No. HM-278D

Product Description: A mixture of genomic DNA from 21 bacterial strains containing equimolar (Even) ribosomal RNA operon counts per organism.

Lot[1,2]: 59206569 **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	0.08 ng/µL of *Acinetobacter baumannii* 0.10 ng/µL of *Actinomyces odontolyticus* 0.04 ng/µL of *Bacillus cereus* 0.08 ng/µL of *Bacteriodes vulgatus* 0.04 ng/µL of *Clostridium beijerinkii* 0.10 ng/µL of *Deinococcus radiodurans* 0.08 ng/µL of *Enterococcus faecalis* 0.07 ng/µL of *Escherichia coli* 0.09 ng/µL of *Heliobacter pylori* 0.03 ng/µL of *Lactobacillus gasseri* 0.05 ng/µL of *Listeria monocytogenes* 0.06 ng/µL of *Neisseria meningitidis* 0.03 ng/µL of *Porphyromonas gingivalis* 0.09 ng/µL of *Propionibacterium acnes* 0.16 ng/µL of *Pseudomonas aeruginosa* 0.14 ng/µL of *Rhodobacter sphaeroides* 0.06 ng/µL of *Staphylococcus aureus* 0.05 ng/µL of *Staphylococcus epidermidis* 0.03 ng/µL of *Streptococcus agalactiae* 0.04 ng/µL of *Streptococcus mutans* 0.06 ng/µL of *Streptococcus pneumoniae*

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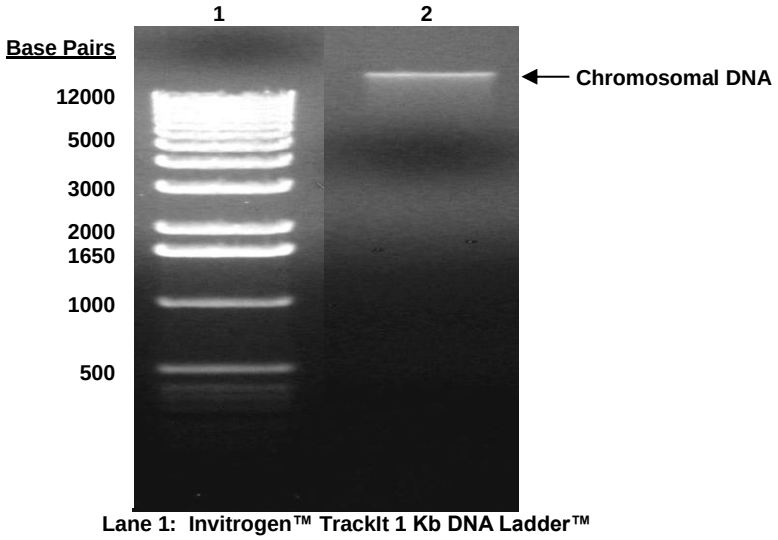
TEST	SPECIFICATIONS	RESULTS
Total Amount of DNA per vial	Report results	30 ng
Functional Activity by PCR Amplification 16S ribosomal RNA gene	~ 1500 bp amplicon	~ 1500 bp amplicon
Individual OD_{260}/OD_{280} Ratios from Mock Community A (Determined by Nanodrop)	Report results Report results Report results Report results Report results Report results Report results Report results Report results Report results Report results Report results Report results Report results Report results Report results Report results Report results 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-278D

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Date: 07 OCT 2010 **Signature:** Signature on file

Title: Technical Manager, BEI Authentication or designee

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