

Genomic DNA from Microbial Mock Community B (Even, High Concentration), v5.1H, for Whole Genome Shotgun Sequencing

Catalog No. HM-276D

Product Description: A mixture of genomic DNA from 20 bacterial strains containing equimolar (Even) ribosomal RNA operon counts (1,000,000 operons per organism per µL). **Note: The label for HM-276D is incorrect. HM-276D contains genomic DNA from microbial mock community B and not microbial mock community A.**

Lot^{1,2}: 60257281

Manufacturing Date: 31AUG2011

TEST	SPECIFICATIONS	RESULTS
DNA Sequencing of Individual 16S Ribosomal RNA Genes from Mock Community B (~ 1500 base pairs)	Consistent with <i>Acinetobacter baumannii</i> Consistent with <i>Actinomyces odontolyticus</i> Consistent with <i>Bacillus cereus</i> Consistent with <i>Bacteroides vulgatus</i> Consistent with <i>Clostridium beijerinckii</i> Consistent with <i>Deinococcus radiodurans</i> Consistent with <i>Enterococcus faecalis</i> Consistent with <i>Escherichia coli</i> Consistent with <i>Helicobacter pylori</i> Consistent with <i>Lactobacillus gasseri</i> Consistent with <i>Listeria monocytogenes</i> Consistent with <i>Neisseria meningitidis</i> Consistent with <i>Propionibacterium acnes</i> Consistent with <i>Pseudomonas aeruginosa</i> Consistent with <i>Rhodobacter sphaeroides</i> Consistent with <i>Staphylococcus aureus</i> Consistent with <i>Staphylococcus epidermidis</i> Consistent with <i>Streptococcus agalactiae</i> Consistent with <i>Streptococcus mutans</i> Consistent with <i>Streptococcus pneumoniae</i>	Consistent with <i>Acinetobacter baumannii</i> [§] Consistent with <i>Actinomyces odontolyticus</i> [§] Consistent with <i>Bacillus cereus</i> [§] Consistent with <i>Bacteroides vulgatus</i> [§] Consistent with <i>Clostridium beijerinckii</i> [†] Consistent with <i>Deinococcus radiodurans</i> [§] Consistent with <i>Enterococcus faecalis</i> [§] Consistent with <i>Escherichia coli</i> [‡] Consistent with <i>Helicobacter pylori</i> [†] Consistent with <i>Lactobacillus gasseri</i> [†] Consistent with <i>Listeria monocytogenes</i> [§] Consistent with <i>Neisseria meningitidis</i> [†] Consistent with <i>Propionibacterium acnes</i> ^{§,3} Consistent with <i>Pseudomonas aeruginosa</i> [‡] Consistent with <i>Rhodobacter sphaeroides</i> [‡] Consistent with <i>Staphylococcus aureus</i> ^{§,4} Consistent with <i>Staphylococcus epidermidis</i> ^{§,4} Consistent with <i>Streptococcus agalactiae</i> [§] Consistent with <i>Streptococcus mutans</i> [§] Consistent with <i>Streptococcus pneumoniae</i> [§]
Agarose Gel Electrophoresis	High molecular weight chromosomal DNA	High molecular weight chromosomal DNA (Figure 1)

TEST	SPECIFICATIONS	RESULTS
<p>Theoretical DNA Concentration for Individual Members of Mock Community B [based on number of ribosomal RNA (rRNA) operons input DNA]</p> <p><i>Acinetobacter baumannii</i> - 1,000,000 operons <i>Actinomyces odontolyticus</i> - 1,000,000 operons <i>Bacillus cereus</i> - 1,000,000 operons <i>Bacteroides vulgatus</i> - 1,000,000 operons <i>Clostridium beijerinckii</i> - 1,000,000 operons <i>Deinococcus radiodurans</i> - 1,000,000 operons <i>Enterococcus faecalis</i> - 1,000,000 operons <i>Escherichia coli</i> - 1,000,000 operons <i>Helicobacter pylori</i> - 1,000,000 operons <i>Lactobacillus gasseri</i> - 1,000,000 operons <i>Listeria monocytogenes</i> - 1,000,000 operons <i>Neisseria meningitidis</i> - 1,000,000 operons <i>Propionibacterium acnes</i> - 1,000,000 operons <i>Pseudomonas aeruginosa</i> - 1,000,000 operons <i>Rhodobacter sphaeroides</i> - 1,000,000 operons <i>Staphylococcus aureus</i> - 1,000,000 operons <i>Staphylococcus epidermidis</i> - 1,000,000 operons <i>Streptococcus agalactiae</i> - 1,000,000 operons <i>Streptococcus mutans</i> - 1,000,000 operons <i>Streptococcus pneumoniae</i> - 1,000,000 operons</p>	Report results	<p>816 pg/μL <i>Acinetobacter baumannii</i>[§] 1000 pg/μL <i>Actinomyces odontolyticus</i>[§] 447 pg/μL <i>Bacillus cereus</i>[§] 757 pg/μL <i>Bacteroides vulgatus</i>[§] 440 pg/μL <i>Clostridium beijerinckii</i>[‡] 1050 pg/μL <i>Deinococcus radiodurans</i>[§] 702 pg/μL <i>Enterococcus faecalis</i>[§] 680 pg/μL <i>Escherichia coli</i>[£] 855 pg/μL <i>Helicobacter pylori</i>[†] 324 pg/μL <i>Lactobacillus gasseri</i>[‡] 497 pg/μL <i>Listeria monocytogenes</i>[§] 583 pg/μL <i>Neisseria meningitidis</i>[†] 876 pg/μL <i>Propionibacterium acnes</i>[§] 1610 pg/μL <i>Pseudomonas aeruginosa</i>[£] 1410 pg/μL <i>Rhodobacter sphaeroides</i>[£] 589 pg/μL <i>Staphylococcus aureus</i>[§] 513 pg/μL <i>Staphylococcus epidermidis</i>[§] 317 pg/μL <i>Streptococcus agalactiae</i>[§] 417 pg/μL <i>Streptococcus mutans</i>[§] 554 pg/μL <i>Streptococcus pneumoniae</i>[§]</p>
Total Amount of DNA per vial	≥ 50 ng per μL	67 ng per μL
Functional Activity by PCR Amplification 16S ribosomal RNA gene	~ 1500 base pair amplicon	~ 1500 base pair amplicon (Figure 1)
OD₂₆₀/OD₂₈₀ Ratio	Report results	1.9
Bacterial Inactivation 10% of total yield plated on Tryptic Soy agar with 5% sheep blood ⁵	No viable bacteria detected	No viable bacteria detected

¹Preparation and QC testing (with the exception of Bacterial Inactivation) were performed by Baylor College of Medicine in Houston, Texas.

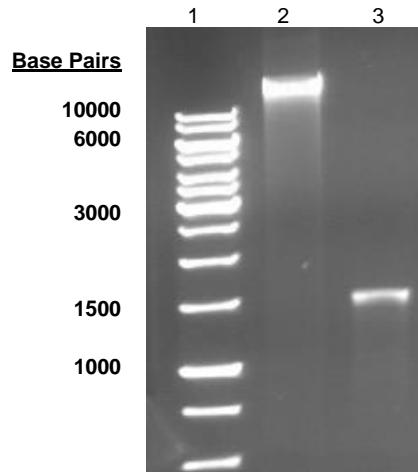
²Genomic DNA was extracted using the following methods: [§]SDS Lysis, CsCl, [‡]Modified SDS Lysis, CsCl, [£]Triton Lysis, CsCl and [†]Omega E.Z.N.A.® Bacterial DNA Kit.

³Also consistent with other *Propionibacterium* species

⁴Also consistent with other *Staphylococcus* species

⁵7 days at 37°C under both anaerobic atmosphere (80% N₂:10% CO₂:10% H₂) and aerobic atmospheric conditions

Figure 1



Lane 1: 1 Kb DNA Ladder (Fermentas, Cat. No. SM0311)
Lane 2: 200 ng of gDNA HM-276D
Lane 3: PCR of 16S ribosomal RNA gene from HM-276D

Date: 07 OCT 2014

Signature: 

Title: Technical Manager, BEI Authentication or designee

ATCC[®], on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected by ATCC[®] and the contractor to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC[®]'s knowledge.

ATCC[®] is a trademark of the American Type Culture Collection.
You are authorized to use this product for research use only. It is not intended for human use.

