

Genomic DNA from Microbial Mock Community B (Even, Low Concentration), v5.1L, for 16S rRNA Gene Sequencing

Catalog No. HM-782D

Product Description: A mixture of genomic DNA from 20 bacterial strains containing equimolar (Even) ribosomal RNA operon counts (100,000 copies per organism per µL). **Note: The label for HM-782D is incorrect. HM-782D contains genomic DNA from microbial mock community B and not microbial mock community A.**

Lot^{1,2}: 60304009

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> -100,000 operons <i>Actinomyces odontolyticus</i> -100,000 operons <i>Bacillus cereus</i> - 100,000 operons <i>Bacteroides vulgatus</i> - 100,000 operons <i>Clostridium beijerinckii</i> - 100,000 operons <i>Deinococcus radiodurans</i> - 100,000 operons <i>Enterococcus faecalis</i> - 100,000 operons <i>Escherichia coli</i> - 100,000 operons <i>Helicobacter pylori</i> - 100,000 operons <i>Lactobacillus gasseri</i> - 100,000 operons <i>Listeria monocytogenes</i> - 100,000 operons <i>Neisseria meningitidis</i> - 100,000 operons <i>Propionibacterium acnes</i> - 100,000 operons <i>Pseudomonas aeruginosa</i> - 100,000 operons <i>Rhodobacter sphaeroides</i> - 100,000 operons <i>Staphylococcus aureus</i> - 100,000 operons <i>Staphylococcus epidermidis</i> - 100,000 operons <i>Streptococcus agalactiae</i> - 100,000 operons <i>Streptococcus mutans</i> - 100,000 operons <i>Streptococcus pneumoniae</i> - 100,000 operons</p>	Report results	<p>82 pg/μL <i>Acinetobacter baumannii</i>[§] 100 pg/μL <i>Actinomyces odontolyticus</i>[§] 45 pg/μL <i>Bacillus cereus</i>[§] 76 pg/μL <i>Bacteroides vulgatus</i>[§] 44 pg/μL <i>Clostridium beijerinckii</i>[‡] 100 pg/μL <i>Deinococcus radiodurans</i>[§] 70 pg/μL <i>Enterococcus faecalis</i>[§] 68 pg/μL <i>Escherichia coli</i>[‡] 86 pg/μL <i>Helicobacter pylori</i>[†] 32 pg/μL <i>Lactobacillus gasseri</i>[‡] 50 pg/μL <i>Listeria monocytogenes</i>[§] 58 pg/μL <i>Neisseria meningitidis</i>[†] 88 pg/μL <i>Propionibacterium acnes</i>[§] 160 pg/μL <i>Pseudomonas aeruginosa</i>[‡] 140 pg/μL <i>Rhodobacter sphaeroides</i>[‡] 59 pg/μL <i>Staphylococcus aureus</i>[§] 51 pg/μL <i>Staphylococcus epidermidis</i>[§] 32 pg/μL <i>Streptococcus agalactiae</i>[§] 42 pg/μL <i>Streptococcus mutans</i>[§] 55 pg/μL <i>Streptococcus pneumoniae</i>[§]</p>
Total Amount of DNA per vial	≥ 5 ng per μL	7.2 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

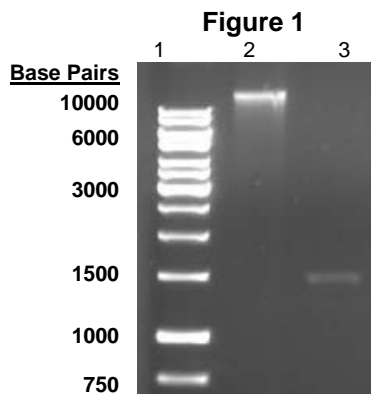
¹Preparation and QC testing (with the exception of Bacterial Inactivation) were performed by Baylor College of Medicine in Houston, Texas.

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



Lane 1: 1 Kb DNA Ladder (Fermentas, Cat. No. SM0311)
 Lane 2: 100 ng of gDNA HM-782D
 Lane 3: PCR of 16S ribosomal RNA gene from HM-782D

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.

