SUPPORTING INFECTIOUS DISEASE RESEARCH

Product Information Sheet for HM-782D

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

Catalog No. HM-782D

For research use only. Not for human use.

Contributor and Manufacturer:

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Product Description:

HM-782D contains genomic DNA from 20 bacterial strains containing equimolar (Even) ribosomal RNA (rRNA) operon counts (100,000 copies per organism per $\mu L)$. This mock community is recommended for 16S rRNA gene sequencing by Sanger or amplicon sequencing methods. The recommended amount to use per experiment is 1 $\mu L.^1$ The bacterial strains that DNA was extracted from are listed in Table 1.

Note: The label for HM-782D is incorrect. HM-782D contains genomic DNA from microbial mock community B and not microbial mock community A.

Table 1. Microbial Mock Community B

Organism	NCBI Reference Sequence
Acinetobacter baumannii, strain 5377	NC_009085
Actinomyces odontolyticus, strain 1A.21	NZ_AAYI02000000
Bacillus cereus, strain NRS 248	NC_003909
Bacteroides vulgatus, strain ATCC® 8482™	NC_009614
Clostridium beijerinckii, strain NCIMB 8052	NC_009617
Deinococcus radiodurans, strain R1 (smooth)	NC_001263, NC_001264
Enterococcus faecalis, strain OG1RF	NC_17316
Escherichia coli, strain K12, substrain MG1655	NC_000913
Helicobacter pylori, strain 26695	NC_000915
Lactobacillus gasseri, strain 63 AM	NC_008530
Listeria monocytogenes, strain EGDe	NC_003210
Neisseria meningitidis, strain MC58	NC_003112
Propionibacterium acnes, strain KPA171202	NC_006085
Pseudomonas aeruginosa, strain PAO1-LAC	NC_002516

Organism	NCBI Reference Sequence
Rhodobacter sphaeroides, strain ATH 2.4.1	NC_007493, NC_007494
Staphylococcus aureus, strain TCH1516	NC_010079
Staphylococcus epidermidis, FDA strain PCI 1200	NC_004461
Streptococcus agalactiae, strain 2603 V/R	NC_004116
Streptococcus mutans, strain UA159	NC_004350
Streptococcus pneumoniae, strain TIGR4	NC_003028

HM-782D has been qualified for PCR applications by amplification of approximately 1500 base pairs of the 16S rRNA gene.

Material Provided:

Each vial contains approximately 100 ng of the bacterial genomic DNA mixture suspended in 25 μ L TE buffer (10 mM Tris-HCl and 1 mM EDTA, pH ~ 7.4). The concentration is shown on the Certificate of Analysis. The vial should be centrifuged prior to opening. Note: If the vial is dry, add 25 μ L TE buffer and incubate overnight at 4°C with mixing to resolubilize the sample.

Packaging/Storage:

HM-782D was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen on ice and should be stored at -20°C or colder immediately upon arrival. Freeze-thaw cycles should be minimized.

Citation

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH as part of the Human Microbiome Project: Genomic DNA from Microbial Mock Community B (Even, Low Concentration), v5.1L, for 16S RNA Gene Sequencing, HM-782D."

Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

Disclaimers:

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References:

1. Highlander, S. K., Personal Communication.

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