

Product Information Sheet for HM-783D

Genomic DNA from Microbial Mock Community B (Staggered, Low Concentration), v5.2L, for 16S rRNA Gene Sequencing

Catalog No. HM-783D

For research use only. Not for human use.

Contributor:

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Product Description:

HM-783D contains genomic DNA from 20 bacterial strains containing staggered ribosomal RNA operon counts (1,000 to 1,000,000 copies per organism per μ 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 μ L.¹ The bacterial strains that DNA was extracted from are listed in Table 1.

Note: The label for HM-783D is incorrect. HM-783D contains genomic DNA from microbial mock community B and not microbial mock community A.

Table 1: Microbial Mock Community B

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

Organism	NCBI Reference Sequence
<i>Pseudomonas aeruginosa</i> , strain PAO1-LAC	NC_002516
<i>Rhodobacter sphaeroides</i> , strain ATH 2.4.1	NC_007493, NC_007494
<i>Staphylococcus aureus</i> , strain TCH1516	NC_010079
<i>Staphylococcus epidermidis</i> , FDA strain PCI 1200	NC_004461
<i>Streptococcus agalactiae</i> , strain 2603 V/R	NC_004116
<i>Streptococcus mutans</i> , strain UA159	NC_004350
<i>Streptococcus pneumoniae</i> , strain TIGR4	NC_003028

HM-783D has been qualified for PCR applications by amplification of approximately 1500 base pairs of the 16S ribosomal RNA gene.

Material Provided:

Each vial contains approximately 20 μ L of the bacterial genomic DNA mixture suspended in Tris-HCl, pH ~ 7.5. The concentration is shown on the Certificate of Analysis. The vial should be centrifuged prior to opening.

Packaging/Storage:

HM-783D 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 (Staggered, Low Concentration), v5.2L, for 16S rRNA Gene Sequencing, HM-783D."

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.

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References:

1. S. K. Highlander, Personal Communication.

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