



DATE: 13 May 2021

Product Identifier

RM Number: 8376

RM Name: Microbial Pathogen DNA Standards for Detection and Identification

Under the U.S. Department of Labor, Occupational Safety and Health Administration (OSHA) 29 CFR 1910.1200, this Reference Material (RM) is NOT classified as a physical hazard or a health hazard, a simple asphyxiant, combustible dust, pyrophoric gas, or hazard not otherwise classified. There are no hazard pictograms, hazard statements or signal word associated with it. Safety Data Sheet information is not required. This document may be used in conjunction with your hazard communication program.

Exemption: 1910.1200(b)(6)(xii). This RM is a biological material and should be considered a potential biological hazard.

Description: This reference material (RM) is intended for harmonizing measurements of abundance and identity using next-generation sequencing-based metagenomics. A unit of RM 8376 consists of 20 tubes (components) containing either bacterial (19 tubes) or human (1 tube) genomic DNA in an aqueous buffer (1 × Tris-EDTA). Each component contains approximately 100 µL of solution. The bacterial components are at a nominal concentration of 50 ng/µL, while the human DNA is nominally 100 ng/µL.

Additional Notes for Biomaterials: RM 8376 IS INTENDED FOR RESEARCH USE. This is a bacterial and human DNA source material. Since there is no consensus on the infections status of extracted DNA, handle RM 8376 components as Biosafety Level 1 materials capable of transmitting infectious disease, as recommended by the Centers for Disease Control and Prevention (CDC) and the National Institutes of Health (NIH). See the Reference Material Information Sheet for storage and use instructions.

Disposal: RM 8376 components and derived solutions should be disposed of in accordance with local, state, and federal regulations.

Transport Information: This material is not regulated by the U.S. Department of Transportation (DOT) and/or International Air Transport Association (IATA).

Disclaimer: The NIST information in this document is specific to the NIST product and is believed to be correct, based upon our current knowledge. This document may not necessarily be all inclusive and should be used only as a guide. NIST does not guarantee the accuracy or completeness of this information. The only official source for specific values and uncertainties is the certificate or information sheet.

Users of this RM should ensure that this document and the corresponding Reference Material Information Sheet in their possession are current. This can be accomplished by contacting the SRM Program: telephone (301) 975-2200; e-mail srmmsds@nist.gov; or via the Internet at <https://www.nist.gov/srm>.