



UNITED STATES DEPARTMENT OF COMMERCE
National Institute of Standards and Technology
Gaithersburg, Maryland 20899-0001

DATE: 13 September 2019

Product Identifier

RM Number: 8392
RM Name: Human DNA for Whole-Genome Variant Assessment
(Family Trio of Eastern European Ashkenazi Jewish Ancestry)
(HG-002, HG-003, HG-004)

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 RM is intended to provide a whole human genome sample and accompanying reference values to assess performance of variant calling from genome sequencing. A unit of RM 8392 consists of three vials, each vial contains a single human genomic DNA from a specific family member (son, father, mother) that was extracted from a human lymphoblastoid cell line (GM24385, GM24149, GM24143, respectively). Each vial contains approximately 10 µg of genomic DNA in TE buffer (10 mM TRIS, pH 8.0, 1 mM EDTA, pH 8.0).

Additional Notes for Biomaterials: RM 8392 is from a human lymphoblastoid cell line and is intended for research use. Since there is no consensus on the infections status of extracted DNA, handle RM 8392 components as Biosafety Level 1 materials capable of transmitting infectious disease, as recommended by the Centers for Disease Control and Prevention (CDC) Office of Safety, Health, and Environment and the National Institutes of Health (NIH). See Report of Investigation for storage and use instructions.

Disposal: RM 8392 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: This document was prepared carefully, using current references. Users of this RM should ensure that this document and the corresponding Report of Investigation in their possession are current. This can be accomplished by contacting the SRM Program: telephone (301) 975-2200; fax (301) 948-3730; e-mail srmmsds@nist.gov; or via the Internet at <https://www.nist.gov/srm>.