



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

DATE: 12 September 2019

### **Product Identifier**

**RM Number:** 8391  
**RM Name:** Human DNA for Whole-Genome Variant Assessment  
(Son of Eastern European Ashkenazi Jewish Ancestry) (HG-002)

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 8391 consists of a vial containing human genomic DNA extracted from a single human lymphoblastoid cell line GM24385 from the Coriell Institute for Medical Research (Camden, NJ). The 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 8391 is from a human lymphoblastoid cell line and is intended for research use. Since there is no consensus on the infectious status of extracted DNA, handle RM 8391 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 8391 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](mailto:srmmsds@nist.gov); or via the Internet at <https://www.nist.gov/srm>.