



DATE: 14 December 2022

**Product Identifier**

**SRM Number:** 2391d

**SRM Name:** PCR-Based DNA Profiling Standard

Under the U.S. Department of Labor, Occupational Safety and Health Administration (OSHA) 29 CFR 1910.1200, this Standard Reference Material (SRM) 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 SRM is a biological material and should be considered a potential biological hazard.

**Description:** This Standard Reference Material (SRM) is intended primarily for use in the standardization of forensic and paternity quality assurance procedures for polymerase chain reaction (PCR) based genetic testing, for instructional law enforcement or non-clinical research purposes, and for quality assurance when assigning values to in house control materials. It is not intended for any human or animal clinical diagnostic use. This SRM is composed of well characterized human deoxyribonucleic acid (DNA) in two forms; genomic DNA (Components A through D) and DNA to be extracted from cells that have been spotted onto FTA paper (Component E). A unit of SRM 2391d is composed of one vial of each of five components packaged together in one box.

**Additional Notes for Biomaterials:** SRM 2391d components are human source materials. The suppliers of the source materials used to prepare this product found the materials to be non-reactive when tested for hepatitis B surface antigen (HBsAg), human immunodeficiency virus (HIV), hepatitis C virus (HCV), and human immunodeficiency virus 1 antigen (HIV-1Ag) by Food and Drug Administration (FDA) licensed tests. However, because no test method can offer complete assurance that HIV, hepatitis viruses, or other infectious agents are absent, this SRM should be handled at the Biosafety Level 1 for any potentially infectious human serum or blood specimen. See Certificate of Analysis for storage and use instructions.

**Disposal:** SRM 2391d 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 report.

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