



DATE: 15 August 2022

Product Identifier

SRM Number: 2372a

SRM Name: Human DNA Quantitation 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: SRM 2372a is intended primarily for use in the value assignment of human genomic deoxyribonucleic acid (DNA) forensic quantitation materials. It is not intended for any human or animal clinical diagnostic use. SRM 2372a consists of three well-characterized human genomic DNA materials solubilized in 10 mmol/L 2-amino-2-(hydroxymethyl)-1,3-propanediol hydrochloride (Tris HCl) and 0.1 mmol/L ethylenediaminetetraacetic acid disodium salt (disodium EDTA) using deionized water adjusted to pH 8.0 buffer (TE⁻⁴). The three component genomic DNA materials, labeled A, B, and C, are derived from a single male donor, multiple female donors, and multiple male and female donors, respectively. A unit of the SRM consists of one sterile 500 µL vial of each component, each vial containing approximately 55 µL of DNA solution. Each of these vials is labeled and is sealed with a color-coded screw cap.

Additional Notes for Biomaterials: SRM 2372a IS INTENDED FOR RESEARCH USE. This is a human-source material. Each donor unit used in the preparation of this product was tested by FDA licensed tests and found to be negative for human immunodeficiency virus (HIV 1 RNA and Anti-HIV 1/2), hepatitis B (HBV DNA and HBsAg), hepatitis C (HCV RNA and Anti HCV), West Nile virus (WNV RNA) and syphilis. Additionally, each donor was tested according to FDA guidelines for Trypanosoma cruzi (Chagas) and found to be negative/non reactive. However, no known test method can offer complete assurance that infectious agents are absent from this material. Since there is no consensus on the infectious status of extracted DNA, handle the SRM 2372a components as Biosafety Level 1 materials potentially capable of transmitting infectious disease.

Disposal: SRM 2372a 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; or via the Internet at <https://www.nist.gov/srm>.