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

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Product Identifier

RM Number: 8366
RM Name: *EGFR* and *MET* Gene Copy Number Standards for Cancer Measurements

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 primarily for use as a standard to assign values of the gene copy numbers for EGFR (epidermal growth factor receptor) and MET (proto-oncogene, receptor tyrosine kinase). It consists of genomic DNA extracted from six human cancer cell lines. The six purified genomic DNAs were solubilized in a buffer consisting of 10 mmol/L tris (hydroxymethyl) aminomethane and 0.1 mmol/L ethylenediaminetetraacetic acid disodium salt (EDTA) pH 8.0 (TE^{-4}). The six components are genomic DNA materials derived from human cell lines labeled Part A (A-431), Part B (BT-20), Part C (C32), Part D (Daoy), Part E (Hs746T), and Part F (SNU-5). A unit of RM 8366 consists of one vial of each component, containing approximately 100 µL of DNA solution. Each of these vials is labeled and is sealed with a color-coded screw cap.

Additional Notes for Biomaterials: RM 8366 IS INTENDED FOR RESEARCH USE. THIS IS A HUMAN-SOURCE MATERIAL. Since there is no consensus on the infectious status of extracted DNA, handle the RM 8366 components as Biosafety Level 1 materials capable of transmitting infectious disease as recommended for any potentially infectious human serum or blood specimen by the Centers for Disease Control and Prevention (CDC) Office of Safety, Health, and Environment and the National Institutes of Health (NIH). See Certificate of Analysis for storage and use instructions.

Disposal: RM 8366 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 http://www.nist.gov/srm.