

Out of Stock - Item is not available at this time - Out of Stock - Item is not available at this time - Gold nanoparticles - Particle size (60 nm diameter)

Art. ID	NIST-8013
Unit	2 x 5 mL ampoules
Deliverydetails	No Dangerous Good /not restricted

Description

This Reference Material (RM) is intended primarily to evaluate and qualify methodology and/or instrument performance related to the physical/dimensional characterization of nanoscale particles used in pre-clinical biomedical research. The RM may also be useful in the development and evaluation of in vitro assays designed to assess the biological response (e.g., cytotoxicity, hemolysis) of nanomaterials, and for use in interlaboratory test comparisons. NIST-RM 8013 consists of nominally 5 mL of citrate-stabilized Au nanoparticles in an aqueous suspension, supplied in hermetically sealed pre-scored glass ampoules sterilized by gamma irradiation. A unit consists of two 5 mL ampoules. The suspension contains primary particles (monomers) and a small percentage of clusters of primary particles. /// Sample value(s) - please ask for current certificate.

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
dry, deposited on substrate	Particle size		55,4 ± 0,3	nm	Atomic Force Microscopy	
dry, deposited on substrate	Particle size		54,9 ± 0,4	nm	Scanning Electron Microscopy	
dry, deposited on substrate	Particle size		56,0 ± 0,5	nm	Transmission Electron Microscopy	
dry, aerosol	Particle size		56,3 ± 1,5	nm	Differential Mobility Analysis	
liquid suspension	Particle size		56,6 ± 1,4	nm	Dynamic Light Scattering: back scatter: 173° scattering angle	
liquid suspension	Particle size		55,3 ± 8,3	nm	Dynamic Light Scattering: back scatter: 90° scatter	

				ing angle
liquid suspension	Particle size	53,2 ± 5,3	nm	Small-Angl e X-ray Sc attering