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Polyvinylpyrrolidone Coated Silver Nanoparticles (Nominal Diameter 75 nm)

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Unit

NIST-8017 5 vials

Deliverydetails No Dangerous Good /not restricted

Description

This Reference Material (RM) is intended primarily for use as a benchmark and investigative tool for the evaluation of potential environmental, health, and safety risks that may be associated with manufactured nanomaterials during their product life-cycle. A unit of NIST-RM-8017 consists of five serum vials containing a lyophilized polyvinylpyrrolidone (PVP)-coated silver (Ag) nanoparticle cake. Each vacuum sealed vial contains nominally 2 mg Ag and 20 mg of PVP (molar mass approximately 40 kDa). The RM must be reconstituted with 2 mL of deionized water before use, the reconstituted Ag concentration is nominally 1 mg/mL. /// Sample value(s) - please ask for current certificate.

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
Reference Value, dry, d	Particle size		70,1 ± 6,0	nm	Atomic For	
eposited on substrate					ce Microsc	
					opy (AFM)	
Reference Value, dry, d	Particle size		74,6 ± 3,8	nm	Transmissi	
eposited on substrate					on Electro	
					n Microsco	
					py (TEM)	
Reference Value, liquid	Particle size		$67,9 \pm 0,8$	nm	Ultra-Smal	
suspension					I-Angle X-	
					ray Scatte	
					ring (USAX	
					S)	
Reference Value, liquid	Particle size		105,6 ± 4,6	nm	Dynamic Li	
suspension, diluted					ght Scatte	
					ring (DLS)	