NB-GSPLF-40-5CARB-50



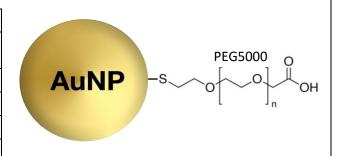
"Lateral-Flow-Easy" 40nm Gold Nano-Spheres PEG-5K-COOH surface, OD=50

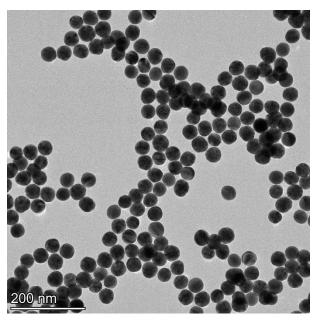
Surface coating: Poly (ethylene glycol) 2-mercaptoethyl ether acetic acid

PEG average M_n 5000 (n≈110)

Syn.: Thiol-PEG-carboxylate, Thio-PEG

Parameter	Value	Specification
Diameter (TEM):	39.96 ± 0.88	36 – 44 nm
	nm	
Coefficient of polydispersity:	2.21%	<15%
Optical density (OD):	50.0	49.5 – 50.5
Mass of single particle:	6.448E-13 mg	As reported
Surface of single particle:	5016.5 nm ²	As reported
Volume of single particle:	33410 nm ³	As reported
Particles concentration:	3.162E+12	As reported
	particles/ml	
Molar particles concentration:	5.27 nM	As reported
Surface area (TEM):	7.78 m ² /g	As reported
Surface to volume ratio:	0.150 nm ⁻¹	As reported
Mass of gold:	2038.9 μg/ml	As reported
Hydrodynamic diameter (DLS):	67.79 nm	60 - 80 nm
PdI (DLS):	0.081	<0.150
Zeta-potential:	-53.0 mV	<-35 mV
pH of the solution:	6.2	5.5 – 6.5
Particle surface:	PEG5000-	PEG5000-
	carboxyl	carboxyl
Solvent:	Milli-Q water	Milli-Q water
	(18.1 M Ω -cm)	(18.1 M Ω -cm)





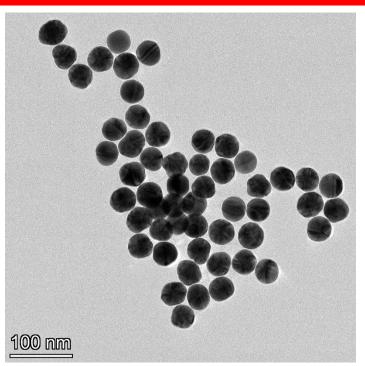
Instrumentation used for characterization		
Diameter and size distribution:	Transmission Electron Microscope Thermo Scientific TALOS F200X	
Mass concentration:	PerkinElmer NexION 2000P+ ICP-MS	
Spectral properties:	PerkinElmer Lambda 365+ UV-Visible Spectrophotometer	
Hydrodynamic Diameter and Zeta Potential:	Malvern Zetasizer	

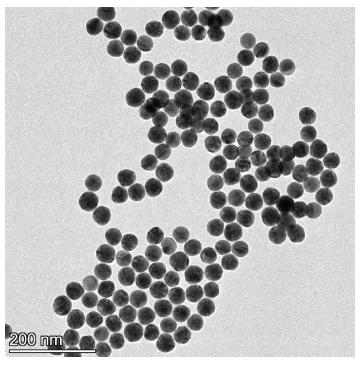
Shake before use. Store at 2-8°C away from light. DO NOT FREEZE



"Lateral-Flow-Easy" 40nm Gold Nano-Spheres PEG-5K-COOH surface, OD=50

nanobrand.com



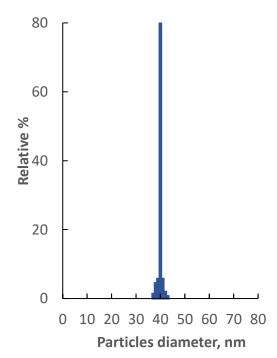


Optical Properties

50 40 30 20 10 0 300 Soo Wavelength, nm

NanoBrand 2300 Alfred-Nobel Montreal Quebec H4S 2A4 CANADA

Size Distribution



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