



## Product Information

### Gold Nanoparticles Colloidal Solution

**Cat. No.: NZ-AUNP-10-CS**

#### Technical Data Sheet

Properties	Chemicals/Test Methods	Value	Unit
Formula	Gold	Au	-
Formula weight	-	196.96	g/mol
Appearance	-	Solution	-
Color	-	Red	-
Particle size	TEM	10	nm
Size distribution	DLS	6-35	nm
$\lambda_{max}$	Spectrophotometer	520-525	nm
Optical density	Spectrophotometer	1.4	-
pH	pH meter	7	-
Purity	Atomic absorption	99.9	%
Morphology	TEM	Spherical	-
Dispersant	Water	-	-
Stabilizer	Trinatrium citrate	150	ppm
Prod. Cap./month	-	$\geq 100$	Liter

#### Package:

- 100 mL
- 250 mL
- 500 mL

#### Applications:

- Electronics
- Sensors
- Solar cells
- Biology & Medicine

#### Chemical / Physical Properties:

- High electrical conductivity
- Highly stable in acidic or basic solution
- Highly stable in oxidative condition

#### Safety:

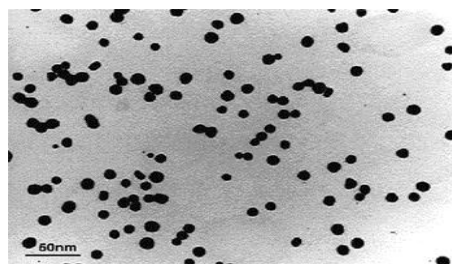
- Keep away from the reach of the children.
- For research & development applications only.
- Wear latex gloves & safety goggles before use.

#### Storage Conditions:

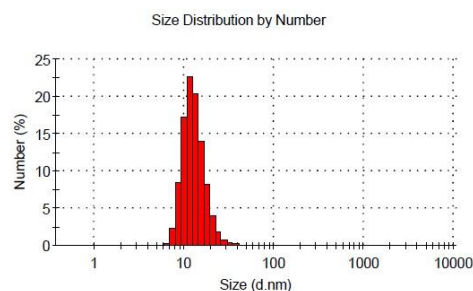
- Keep the bottle in a refrigerator.
- Keep away from direct sunlight.
- Keep away from freezing.

Corresponding Material Safety Data Sheet is available from Zist Shimi Azma Roshd; NANOZINO R&D Co., Product Safety Department, or can be downloaded from our homepage [nanozino.com](http://nanozino.com). We strongly recommend reading carefully the material safety data sheet prior to the use of the product. Contact us for further consultant.

TEM image of AuNP colloidal solution



Size distribution of AuNP colloidal solution



X-Ray Diffraction; XRD of AuNP colloidal solution

